



STORM WATER MONITORING AND RESEARCH PROGRAM

ANNUAL DATA SUMMARY REPORT

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TABLE OF CONTENTS

EXECUTIVE SUMMARY	2
NOTES ON REPORTING.....	3
SECTION 1 Introduction.....	4
<i>Runoff Characterization Data</i>	<i>4</i>
<i>Storm water Treatment Technology Pilot Studies Data</i>	<i>5</i>
SECTION 2 Characterization Data	6
2.1 Northern California Sand Filter Study.....	6
2.2 Tahoe Basin Full-Scale Activated Alumina Filter Media Pilot Study	9
2.3 Tahoe Basin Sand Trap with Filter Fabric (TR2000) Pilot Study	12
2.4 SR-73 Treatment Technology Pilot Study	14
SECTION 3 Treatment Technology Pilot Study Data	23
3.1 Northern California Sand Filter Study.....	23
3.2 Tahoe Basin Full-Scale Activated Alumina Filter Media Pilot Study	28
3.3 Tahoe Basin Sand Trap with Filter Fabric (TR2000) Pilot Study	34
3.4 SR-73 Treatment Technology Pilot Study	36
SECTION 4 Gross Solids	61
4.1 District 7 Phase III/Phase IV Litter Pilot Studies	61
4.2 SR-73 Treatment Technology Pilot Studies.....	63
4.3 Drain Inlet Cleaning Efficacy (DICE) Study.....	65

EXECUTIVE SUMMARY

The Caltrans Storm water Monitoring and Research Program is a multi-year study to characterize storm water and storm water-related materials which are carried from Caltrans facilities and into adjacent surface water bodies by rain and snowmelt runoff. The program also includes studies of proposed technologies to treat storm-related runoff from Caltrans facilities in order to comply with the requirements of the State Water Resources Control Board and associated Regional Water Quality Control Boards. This report comprises a summary of all data generated by this program during the 2004-2005 storm season.

During the 2004-2005 monitoring season, samples were collected from 52 different sites in three Caltrans districts. Samples were collected at 37 sites in Caltrans Districts 2, 3, and 12, for analysis of water chemistry constituents, and at 15 sites in Caltrans Districts 7 and 12 for analysis of gross solids (litter and vegetation) content. No sediment samples were collected during the season.

This report summarizes water quality (water chemistry) data and gross solids (litter and vegetation) data. Water quality data is grouped into two categories, Storm water Runoff Characterization and Treat Technology Pilot Studies. Gross solids data is reported separately.

NOTES ON REPORTING

Throughout this report, data from all study sites are summarized by observed range (minimum – maximum reported values). When this range is bounded by a non-detected value, the range boundary is given as “<” (less than) the reporting limit.

The Caltrans Data Analysis Tool was used to calculate the mean and standard deviation for those data sets containing non-detect (censored) data. In the statistical summary tables, constituents showing no mean or standard deviation values (i.e., “---”) had insufficient detected data to perform these analyses.

Total metals data are sometimes reported as “total recoverable”, due to some differences in the sample digestion process for analysis of total metals. However, for reporting simplicity and statistical analysis, all metals are listed in the summary tables as either dissolved or total fractions. Metals data reported as total recoverable by the laboratory are included in this report as total metals.

The Caltrans Data Quality Objectives for water quality analysis require that all analyses are occasionally performed and reported in duplicate. For purposes of this data summary, only one data point was selected from each set of duplicate data to prevent very precise duplicate data points from skewing the mean and standard deviation calculations. In cases where one data point from a duplicate pair was discarded, the higher of the two data points was incorporated into the summary calculations and the lower data point was discarded.

Each monitoring location in this report is designated by a unique Monitoring Site Identifier which is made up of two components: Caltrans District and Site Number. For example, the Monitoring Site ID 7-201 is presented with a Caltrans District value of 7 and a Site Number value of 201. By definition, Monitoring Site ID 7-201 is located in Caltrans District 7 (the Caltrans District in which the monitoring site is located is noted by the number to the left of the hyphen). Caltrans Districts are numbered from 1 to 12. Site Numbers are non-unique; individual sites in *different* Caltrans Districts can possess the same Site Number. For example, Site Number 201 exists in Caltrans District 6 (Monitoring Site ID 6-201), and Site Number 201 also exists in Caltrans District 7 (Monitoring Site ID 7-201). The combination of Caltrans District and Site Number produce a unique Monitoring Site ID for each Caltrans monitoring location in the state.

SECTION 1 Introduction

This report comprises a summary of all data generated by the Caltrans Storm water Monitoring and Research Program during the 2004-2005 storm season. The season ran from October 1, 2004, to April 30, 2005. A total of 9,650 data points were generated during the season, including 8,382 data points for water quality and 1,268 data points for gross solids.

Both water quality (water chemistry) and gross solids (litter and vegetation) data are presented in this report. No particle characterization studies were performed during the 2004-2005 monitoring season.

All water quality data contained in this report was generated from analysis of flow-weighted composite samples with the exception of Oil & Grease data, which was generated from the analysis of grab samples.

Samples were collected and analyzed in accordance with the Caltrans Comprehensive Protocols Guidance Manual. Laboratory and field data were validated using the Caltrans Laboratory Electronic Data Deliverables (EDD) Error Checker and the Caltrans Automated Data Validation Program.

Water quality data in this report is presented in summary format. Each data set is summarized in a table which consists of the number of samples in the data set (n), standard deviation, mean concentration, and percentage of samples in which the analyte was detected. The Caltrans Data Analysis Tool was used to generate summary statistics for data sets that contained non-detect (censored) data.

Water quality data in this report falls into the following two general categories.

Runoff Characterization Data

The Caltrans Statewide Runoff Characterization Study is a multi-year project designed to characterize the quality of storm water runoff from representative Caltrans facilities such as freeways and highways, park-and-ride facilities, rest areas, vehicle inspection facilities, toll plazas, and maintenance yards. Monitoring sites have been selected which represent typical Caltrans operations. Runoff characterization data is generated from samples of untreated runoff at the monitoring locations. The purpose of this study is to collect information about materials which are carried by precipitation runoff from Caltrans facilities. This information is used to address regulatory compliance, statistical evaluation, local modeling, and to collect data for research and development.

Storm water Treatment Technology Pilot Studies Data

Runoff from Caltrans facilities often requires treatment before it is allowed to enter the surrounding surface water bodies. Untreated runoff may contain materials such as metals, sediment, organic compounds, anions and cations, pathogens such as coliform bacteria, nutrients, and pesticides which have the potential to negatively impact natural water bodies. Treatment best management practices (BMPs) are developed to remove these constituents before the runoff is released into the environment. Before a treatment BMP is approved by Caltrans for general use it must be tested to ensure that it removes compounds of concern reliably and effectively, that it does not contribute materials to the runoff stream which could compromise the surrounding environment, and that it does not entail unacceptable construction costs, maintenance costs, or maintenance requirements.

When a new BMP design is being evaluated, samples are typically collected from both the influent and effluent of the BMP under consideration. A comparison of the water quality between influent and effluent is used to appraise BMP performance. Since influent data from BMP pilot studies is generated from the analysis of untreated runoff from Caltrans facilities, this data is also used as Runoff Characterization Data.

SECTION 2 Characterization Data

2.1 District 2 Sand Filter Study

Caltrans established a series of studies throughout California to determine the feasibility of passive roadside sand filters as storm water treatment systems. The District 2 Sand Filter Study (D2SF) being performed in Northern California began in 2002 and is scheduled to end in 2006. The purpose of this study is to evaluate two different sand filter systems in cold climate areas that undergo relatively large amounts of rainfall and where freezing temperatures occur regularly.

The first sand filter, the Mountain Gate site, is located along I-5 just north of Redding, CA. The Mountain Gate sand filter was constructed as a combined sedimentation/filtration basin with a rock gabion separating the basins and earthen banks. The Mountain Gate sand filter is considered a partial sedimentation basin. The second sand filter, the Mount Shasta site, is located at the Mount Shasta Caltrans Maintenance yard on Mott Road just south of the City of Mount Shasta. The Mount Shasta sand filter was built with separate sedimentation and filtration basins, separated with a concrete divider wall, and constructed with earthen banks. The Mount Shasta sand filter is considered a full sedimentation basin.

Table 2.1.0 District 2 Sand Filter Study Monitoring Sites

Site ID	Outfall ID	Caltrans District	Regional Board	County	Catchment Area (he)
2-207	Mountain Gate Northbound Influent	2	Central Valley	Shasta	0.920
2-209	Shasta Influent	2	Central Valley	Siskiyou	1.060

Table 2.1.1 Caltrans Site ID 2-207
Water Quality Data Summary

Constituent	Units	Range		Mean	Std Dev	n	% Detected	
<i>Conventional/Nutrients</i>								
DOC	mg/L	4	-	6	4.8	1.0	6	100%
EC	umhos/cm	25	-	46	36.5	9.1	6	100%
Hardness as CaCO ₃	mg/L	9	-	23	15.0	5.1	6	100%
NH ₃ -N	mg/L	< 0.1	-	1	--	--	6	33%
NO ₃ -N	mg/L	< 0.1	-	2	--	--	6	33%
Ortho-P	mg/L	< 0.02	-	0.02	--	--	6	83%
P	mg/L	< 0.03	-	< 0.03	--	--	6	0%
TDS	mg/L	< 1.0	-	40	24.0	12.0	6	83%
TKN	mg/L	< 0.1	-	1	--	--	6	83%
TOC	mg/L	4	-	7	5.0	1.1	6	100%
TSS	mg/L	21	-	87	52.3	27.9	6	100%
Turbidity	NTU	12	-	38	25.0	9.5	6	100%
<i>Metals</i>								
As (Diss)	ug/L	< 0.5	-	1	--	--	6	17%
As (Total)	ug/L	< 0.5	-	1	--	--	6	67%
Cd (Diss)	ug/L	< 0.2	-	0.2	--	--	6	83%
Cd (Total)	ug/L	< 0.2	-	< 0.2	--	--	6	0%
Cr (Diss)	ug/L	< 1.0	-	2	--	--	6	83%
Cr (Total)	ug/L	1	-	3	2.3	0.8	6	100%
Cu (Diss)	ug/L	1	-	6	3.7	1.6	6	100%
Cu (Total)	ug/L	2	-	15	9.7	4.5	6	100%
Fe (Diss)	ug/L	15	-	841	163.0	332.2	6	100%
Fe (Total)	ug/L	27	-	1260	957.8	464.6	6	100%
Ni (Diss)	ug/L	< 2.0	-	2	--	--	6	83%
Ni (Total)	ug/L	1	-	4	3.0	1.3	6	100%
Pb (Diss)	ug/L	< 1.0	-	< 1.0	--	--	6	0%
Pb (Total)	ug/L	< 1.0	-	7	4.0	2.0	6	83%
Zn (Diss)	ug/L	11	-	53	28.2	17.8	6	100%
Zn (Total)	ug/L	10	-	105	66.0	32.3	6	100%

Table 2.1.2 Caltrans Site ID 2-209
Water Quality Data Summary

Constituent	Units	Range		Mean	Std Dev	n	% Detected	
<i>Conventional/Nutrients</i>								
TSS	mg/L	2	-	48	17.3	19.5	8	100%
TDS	mg/L	5	-	157	49.6	48.5	8	100%
Turbidity	NTU	1	-	33	6.4	10.1	8	100%
pH	pH Units	7	-	7	7.0	--	1	100%
EC	umhos/cm	18	-	139	66.1	43.6	8	100%
Hardness as CaCO ₃	mg/L	6	-	50	22.6	15.9	8	100%
TOC	mg/L	2	-	8	4.0	2.1	8	100%
DOC	mg/L	2	-	8	3.9	2.1	8	100%
TKN	mg/L	< 0.1	-	1	--	--	8	38%
NH ₃ -N	mg/L	< 0.1	-	1	--	--	8	13%
NO ₃ -N	mg/L	< 0.1	-	1	--	--	8	13%
Total P	mg/L	<0.03	-	<0.03	--	--	8	0%
Ortho-P	mg/L	< 0.02	-	0.02	--	--	8	38%
<i>Metals</i>								
As (Diss)	ug/L	< 0.5	-	1	--	--	8	25%
As (Total)	ug/L	< 0.5	-	1	--	--	8	38%
Cd (Diss)	ug/L	< 0.2	-	< 0.2	--	--	8	0%
Cd (Total)	ug/L	< 0.2	-	< 0.2	--	--	8	0%
Cr (Diss)	ug/L	< 1.0	-	< 1.0	--	--	8	0%
Cr (Total)	ug/L	< 1.0	-	2	--	--	8	88%
Cu (Diss)	ug/L	< 1.0	-	7	2.0	2.5	8	88%
Cu (Total)	ug/L	< 1.0	-	10	3.8	3.3	8	88%
Fe (Diss)	ug/L	8	-	56	18.3	16.1	8	100%
Fe (Total)	ug/L	54	-	1670	657.9	533.6	8	100%
Ni (Diss)	ug/L	< 2.0	-	3	--	--	8	38%
Ni (Total)	ug/L	< 2.0	-	5	2.3	1.8	8	88%
Pb (Diss)	ug/L	< 1.0	-	< 1.0	--	--	8	0%
Pb (Total)	ug/L	< 1.1	-	2	--	--	8	75%
Zn (Diss)	ug/L	< 2.0	-	49	16.4	17.1	8	88%
Zn (Total)	ug/L	< 2.1	-	65	30.4	19.6	8	88%

2.2 Tahoe Basin Full-Scale Activated Alumina Filter Media Pilot Study

As part of a road construction project along Highway 50 in El Dorado County near the town of Meyers, California, Caltrans installed a series of infiltration storm water BMPs to treat storm water runoff from the highway. Two of these BMP sites were selected and redesigned as full-scale pilot filters for testing adsorptive media for storm water treatment. These two BMPs, which are partial sedimentation Austin-type media filters in which both sedimentation and filtration processes occur in a single basin, provide enhanced treatment of the highway runoff by settling and filtration through sand and activated alumina filter media. The activated alumina filter media for these two BMPs was selected based on the results of the laboratory studies.

Basin B103 is located between Incline Road and Airport Road on Highway 50 (El Dorado County – District 3), north of the town of Meyers, California, at post mile 73.1. The monitoring station IDs at this site are 3-234 (influent), 3-235 (effluent), and 3-236 (overflow). Basin B111 is located between Incline Road and Airport Road on Highway 50 (El Dorado County – District 3), north of the town of Meyers, California, at post mile 73.65. The monitoring station IDs at this site are 3-237 (influent), 3-238 (effluent), and 3-239 (overflow). Both basins collect runoff from Highway 50.

At this location, Highway 50 is a two-lane road with asphalt concrete dikes along each side of the highway. The dikes convey runoff to drainage inlets where flow enters a culvert that discharges to the basins via a rock-lined swale. At each basin, runoff flows through a forebay where sediment is deposited as it passes through a gabion wall. The runoff then flows into a filter media area. This media consists of a layer of fine sand, a layer of filter fabric, activated alumina, another fabric layer, a layer of permeable material, and a polyvinyl chloride (PVC) membrane placed on native soil. The filter media area utilizes an underdrain piping system beneath the filter media to collect the filtrate and then discharge to the surface.

Table 2.2.0 Tahoe Basin Full-Scale Activated Alumina Filter Media Pilot Study Monitoring Sites

Site ID	Outfall ID	Caltrans District	Regional Board	County	Catchment Area (he)
3-234	Basin B103 Influent	3	Central Valley	El Dorado	0.230
3-237	Basin B111 Influent	3	Central Valley	El Dorado	0.350

Table 2.2.1 Caltrans Site ID 3-234
Water Quality Data Summary

Constituent	Units	Range		Mean	Std Dev	n	% Detected	
<i>Conventional/Nutrients</i>								
TSS	mg/L	168	-	968	410.4	256.3	9	100%
TDS	mg/L	362	-	2748	1308.0	849.4	9	100%
Turbidity	NTU	204	-	1401	544.3	434.8	9	100%
pH	pH Units	6.8	-	7.4	7.0	0.2	9	100%
EC	umhos/cm	716	-	5830	3131.3	2006.6	9	100%
Hardness as CaCO ₃	mg/L	24	-	62	41.1	13.5	9	100%
TOC	mg/L	4.7	-	29.4	12.3	7.8	9	100%
DOC	mg/L	3.8	-	22.8	8.1	6.5	9	100%
TKN	mg/L	0.57	-	2.32	1.2	0.5	9	100%
NH ₃ -N	mg/L	0.12	-	0.9	0.4	0.2	9	100%
NO ₂ -N	mg/L	< 0.1	-	0.47	0.1	0.2	9	56%
NO ₃ -N	mg/L	< 0.1	-	0.43	0.2	0.1	9	67%
Total P	mg/L	< 0.03	-	0.17	0.03	0.6	9	44%
Ortho-P	mg/L	< 0.02	-	0.12	--	--	9	33%
Oil & Grease	mg/L	5	-	56	17.0	35.0	9	75%
<i>Metals</i>								
Al (Diss)	ug/L	380.4	-	1586	796.7	412.1	9	100%
Al (Total)	ug/L	3482	-	11800	6886.6	3408.8	9	100%
As (Diss)	ug/L	1	-	5.6	3.2	1.4	9	100%
As (Total)	ug/L	2.5	-	6.5	4.1	1.4	9	100%
Cd (Diss)	ug/L	< 0.2	-	0.6	--	--	9	56%
Cd (Total)	ug/L	< 0.2	-	1.1	0.4	0.4	9	67%
Cr (Diss)	ug/L	2.5	-	16	7.1	3.8	9	100%
Cr (Total)	ug/L	8.1	-	30	14.6	6.5	9	100%
Cu (Diss)	ug/L	4.1	-	16	7.4	3.6	9	100%
Cu (Total)	ug/L	19	-	61	31.4	14.2	9	100%
Fe (Diss)	ug/L	540	-	2640	1284.3	713.9	9	100%
Fe (Total)	ug/L	5010	-	17200	9922.2	4627.2	9	100%
Ni (Diss)	ug/L	2	-	5.1	2.9	0.9	9	100%
Ni (Total)	ug/L	7.2	-	22	11.6	5.0	9	100%
Pb (Diss)	ug/L	1	-	6	2.0	1.9	9	78%
Pb (Total)	ug/L	7	-	34	16.1	8.7	9	100%
Zn (Diss)	ug/L	28	-	65	43.4	12.9	9	100%
Zn (Total)	ug/L	120	-	380	198.9	102.6	9	100%

Table 2.2.2 - Caltrans Site ID 3-237
Water Quality Data Summary

Constituent	Units	Range		Mean	Std Dev	n	% Detected	
<i>Conventional/Nutrients</i>								
TSS	mg/L	3	-	541	197.3	200.2	9	100%
TDS	mg/L	85	-	1930	676.1	651.2	9	100%
Turbidity	NTU	11.8	-	804	236.9	234.9	9	100%
pH	pH Units	6.5	-	7.2	6.9	0.2	9	100%
EC	umhos/cm	100	-	5032.4	1394.9	1549.8	9	100%
Hardness as CaCO ₃	mg/L	8	-	112	55.4	30.9	9	100%
TOC	mg/L	3.9	-	30.5	10.6	8.0	9	100%
DOC	mg/L	1	-	24.7	7.5	6.8	9	100%
TKN	mg/L	0.12	-	1.53	0.6	0.5	9	100%
NH ₃ -N	mg/L	< 0.1	-	0.82	0.2	0.3	9	33%
NO ₂ -N	mg/L	< 0.1	-	0.16	--	--	9	22%
NO ₃ -N	mg/L	< 0.1	-	0.3	0.2	0.1	9	67%
Total P	mg/L	< 0.03	-	0.18	0.09	0.06	9	78%
Ortho-P	mg/L	< 0.02	-	0.2	0.08	0.06	9	67%
Oil & Grease	mg/L	5	-	40	--	--	9	50%
<i>Metals</i>								
Al (Diss)	ug/L	272	-	1092	572.9	281.5	9	100%
Al (Total)	ug/L	751.2	-	8381	3632.5	2883.7	9	100%
As (Diss)	ug/L	0.5	-	4.2	2.1	1.3	9	100%
As (Total)	ug/L	1	-	5.1	2.7	1.5	9	100%
Cd (Diss)	ug/L	< 0.2	-	0.3	--	--	9	44%
Cd (Total)	ug/L	< 0.2	-	0.6	0.3	0.2	9	56%
Cr (Diss)	ug/L	< 1.0	-	12	4.1	3.8	9	89%
Cr (Total)	ug/L	1.5	-	19	7.9	5.5	9	100%
Cu (Diss)	ug/L	2.9	-	14	6.3	3.2	9	100%
Cu (Total)	ug/L	7.3	-	41	17.8	13.2	9	100%
Fe (Diss)	ug/L	81.4	-	1368	854.9	424.8	9	100%
Fe (Total)	ug/L	320	-	12100	4893.0	4125.6	9	100%
Ni (Diss)	ug/L	< 2.0	-	4.8	2.7	1.4	9	44%
Ni (Total)	ug/L	< 2.0	-	15	5.9	5.0	9	78%
Pb (Diss)	ug/L	< 1.0	-	6.3	1.7	2.3	9	78%
Pb (Total)	ug/L	1.9	-	22	8.5	7.8	9	100%
Zn (Diss)	ug/L	< 2.0	-	76	35.0	22.7	9	89%
Zn (Total)	ug/L	16	-	300	116.6	102.1	9	100%

2.3 Tahoe Basin Sand Trap with Filter Fabric (TR2000) Pilot Study

As part of a roadway drainage water quality improvement project along Highway 267 in Placer County near the town of Kings Beach, California, Caltrans District 3 installed a series of earthen infiltration basins to treat runoff from the highway. Two of these basin sites were selected for pilot testing the filter fabric sand traps that use a two-stage treatment process consisting of settling followed by filtration through filter fabric. These sites were selected for the pilot study because they met the spatial and hydraulic head requirements of the devices and the design and construction schedule matched the needs of the study. The primary goals of the pilot study are to evaluate the treatment effectiveness of two sand traps for reducing total suspended solids (TSS) and turbidity from storm water runoff, and to assess operation and maintenance requirements at the two sand traps under the various environmental conditions that occur in the Tahoe Basin.

Sand Trap No. 1 receives runoff from a paved highway drainage area of approximately 2,000 square meters (m^2) (21,600 square feet [ft^2]). At this location, Highway 267 is a two-lane road with bike lanes and asphalt concrete dikes along each side of the highway. The dikes convey runoff to three drainage inlets located along the sides of the road. The drainage inlets are designed with sump bottoms that allow coarse sands to settle out and provide temporary storage volume for the runoff before it is conveyed through underground pipes to the sand trap.

Sand Trap No. 2 receives runoff from a paved highway drainage area of approximately 1,000 m^2 (11,300 ft^2). At this location, Highway 267 is a two-lane road with bike lanes and asphalt concrete dikes along each side of the highway. The dikes convey runoff to two drainage inlets where flow enters a culvert that discharges to the BMP via an inlet pipe. The drainage inlets are designed with sump bottoms that allow coarse sands to settle out and provide temporary storage volume for the runoff before it is conveyed through underground pipes to the sand trap.

Table 2.3.0 Tahoe Basin Sand Trap with Filter Fabric (TR2000) Pilot Study Monitoring Sites

Site ID	Outfall ID	Caltrans District	Regional Board	Catchment Area (he)	
				County	
3-301	Sand Trap #1 Influent	3	Lahontan	Placer	0.200
3-304	Sand Trap #2 Influent	3	Lahontan	Placer	0.110

Table 2.3.1 - Caltrans Site ID 3-301
Water Quality Data Summary

Constituent	Units	Range		Mean	Std Dev	n	% Detected	
<i>Conventional/Nutrients</i>								
TSS	mg/L	72	-	1409	396.5	449.1	10	100%
Turbidity	NTU	184	-	2480	772.8	892.7	10	100%

Table 2.3.2 - Caltrans Site ID 3-304
Water Quality Data Summary

Constituent	Units	Range		Mean	Std Dev	n	% Detected	
<i>Conventional/Nutrients</i>								
TSS	mg/L	115	-	1925	767.9	590.5	9	100%
Turbidity	NTU	79.2	-	1879	822.8	582.8	9	100%

2.4 SR-73 Treatment Technology Pilot Study

Caltrans is in the process of replacing 26 compost storm water filters (CSFs) located along the San Joaquin Hills Transportation Corridor (SJHTC) portion of State Route 73 in Orange County with other treatment technologies. Each of these sites included an existing basin for the purposes of peak inflow attenuation and flood control storage, as well as a CSF for the purpose of water quality improvement. BMP pilot sites including optimized detention basins, gross solids removal devices (GSRDs) with sediment traps, a bioretention basin, a constructed wetland, a wet basin, and Austin-type sand filters; one of the CSF sites was replaced with two treatment technology BMP sites. The remaining 12 CSFs are being replaced with Caltrans Storm Water Management Plan (SWMP) – approved detention basins. The water quality data summarized here is taken entirely from the detention basin set of these pilot studies.

Most detention basins used for water quality purposes are sized to hold a volume of storm runoff from a particular watershed up to or equal to a prescribed design storm, for example, a 1-year or 2-year storm event. For purposes of the District 12 SR-73 Pilot Program, the design storm is defined as 38 mm/hectare (0.60 inches/acre) for paved roadway, and is equivalent to about the 85th percentile 24-hour storm. This storm, applied to a roadway drainage area defines the amount of runoff to be treated, termed the Water Quality Volume, or WQV.

The objective of the District 12 SR-73 Pilot Program for detention basins is to evaluate the performance of smaller basins. A series of pilot basins were built to contain different fractions of the WQV – 25 percent, 50 percent, 75 percent and the entire WQV. A basin sized for the entire WQV meets current Caltrans design guidelines and provides a baseline of performance for the pilot program. Key performance parameters being studied include sediment removal and effluent water quality as they vary with average detention time.

Table 2.4.0 SR-73 Treatment Technology Pilot Study Monitoring Sites

Site ID	Outfall ID	Caltrans District	Regional Board	County	Catchment Area (he)
12-236	883L Inlet	12	San Diego	Orange	2.0
12-239	893L Inlet	12	San Diego	Orange	2.28
12-242	922R E Inlet	12	Santa Ana	Orange	8.8
12-245	922R W Inlet	12	Santa Ana	Orange	6.4
12-248	930L Inlet	12	Santa Ana	Orange	1.48
12-251	1032R Inlet	12	Santa Ana	Orange	10.8
12-254	1137L Inlet	12	Santa Ana	Orange	0.52
12-257	1143L Inlet	12	Santa Ana	Orange	0.28

Table 2.4.1 - Caltrans Site ID 12-236
Water Quality Data Summary

Constituent	Units	Range		Mean	Std Dev	n	% Detected	
<i>Conventional/Nutrients</i>								
DOC	mg/L	2.7	-	29	10.4	9.2	12	100%
EC	umhos/cm	24	-	370	157.3	119.2	12	100%
Hardness as CaCO ₃	mg/L	6.5	-	150	46.5	47.1	12	100%
NO ₃ -N	mg/L	0.58	-	4.8	1.6	1.3	12	100%
Ortho-P	mg/L	0.02	-	0.098	0.0	0.0	12	100%
P	mg/L	0.057	-	0.34	0.1	0.1	12	100%
pH	pH Units	6.4	-	7.4	6.8	0.3	12	100%
TDS	mg/L	11	-	290	106.2	85.7	12	100%
TKN	mg/L	0.19	-	5.17	1.7	1.6	12	100%
TOC	mg/L	2.8	-	30	10.8	9.5	12	100%
TSS	mg/L	13	-	190	53.3	48.7	12	100%
Turbidity	NTU	11	-	280	51.1	73.4	12	100%
<i>Metals</i>								
As (Diss)	ug/L	1.7	-	5.1	3.3	1.2	12	100%
As (Total)	ug/L	1.8	-	6	3.9	1.4	12	100%
Cd (Diss)	ug/L	< 0.2	-	4.1	0.8	1.3	12	58%
Cd (Total)	ug/L	< 0.2	-	5	1.0	1.6	12	92%
Cr (Diss)	ug/L	< 1.0	-	1.7	0.7	0.5	12	25%
Cr (Total)	ug/L	1.3	-	13	4.6	3.1	12	100%
Cu (Diss)	ug/L	3	-	58	19.0	17.9	12	100%
Cu (Total)	ug/L	5.2	-	63	25.2	18.2	12	100%
Ni (Diss)	ug/L	< 2.0	-	1.7	6.7	6.3	12	67%
Ni (Total)	ug/L	2.8	-	24	9.2	6.6	12	100%
Pb (Diss)	ug/L	< 1.0	-	22	6.7	6.3	12	67%
Pb (Total)	ug/L	1.3	-	9.4	3.9	2.0	12	100%
Zn (Diss)	ug/L	< 2.0	-	160	55.6	53.0	12	92%
Zn (Total)	ug/L	25	-	160	72.8	47.6	12	100%

Table 2.4.2 - Caltrans Site ID 12-239
Water Quality Data Summary

Constituent	Units	Range		Mean	Std Dev	n	% Detected	
<i>Conventional/Nutrients</i>								
DOC	mg/L	3.8	-	21	9.0	6.4	12	100%
EC	umhos/cm	66	-	1000	328.4	363.6	12	100%
Hardness as CaCO ₃	mg/L	15	-	440	127.3	157.3	12	100%
NO ₃ -N	mg/L	0.54	-	4.5	1.5	1.2	12	100%
Ortho-P	mg/L	0.02	-	0.22	0.1	0.1	12	100%
P	mg/L	0.054	-	0.22	0.1	0.1	12	100%
pH	pH Units	6.7	-	7.7	7.0	0.3	12	100%
TDS	mg/L	46	-	770	247.8	269.3	12	100%
TKN	mg/L	0.167	-	2.44	0.9	0.8	12	100%
TOC	mg/L	3.9	-	22	9.3	6.9	12	100%
TSS	mg/L	4.8	-	44	18.0	12.3	12	100%
Turbidity	NTU	7.2	-	41	17.9	9.5	12	100%
<i>Metals</i>								
As (Diss)	ug/L	< 0.5	-	1.2	--	--	12	50%
As (Total)	ug/L	< 0.5	-	1.5	--	--	12	50%
Cd (Diss)	ug/L	< 0.2	-	0.6	0.4	0.4	12	25%
Cd (Total)	ug/L	< 0.2	-	0.74	0.9	0.2	12	58%
Cr (Diss)	ug/L	< 1.0	-	1.4	--	--	12	17%
Cr (Total)	ug/L	1.1	-	5.3	2.4	1.3	12	100%
Cu (Diss)	ug/L	4.5	-	28	12.5	8.1	12	100%
Cu (Total)	ug/L	8.8	-	32	17.1	8.8	12	100%
Ni (Diss)	ug/L	< 2.0	-	11	4.3	3.5	12	75%
Ni (Total)	ug/L	< 2.0	-	13	5.2	3.8	12	83%
Pb (Diss)	ug/L	< 1.0	-	< 1.0	--	--	12	0%
Pb (Total)	ug/L	< 1.0	-	2.4	1.7	0.5	12	83%
Zn (Diss)	ug/L	14	-	86	42.2	26.3	12	100%
Zn (Total)	ug/L	26	-	100	54.8	25.0	12	100%

Table 2.4.2 - Caltrans Site ID 12-242
Water Quality Data Summary

Constituent	Units	Range		Mean	Std Dev	n	% Detected	
<i>Conventional/Nutrients</i>								
DOC	mg/L	3.6	-	32	11.7	9.5	12	100%
EC	umhos/cm	36	-	800	181.8	216.1	12	100%
Hardness as CaCO ₃	mg/L	7.9	-	330	60.5	93.7	12	100%
NO ₃ -N	mg/L	0.69	-	5.5	1.7	1.5	12	100%
Ortho-P	mg/L	0.04	-	0.2	0.1	0.0	12	100%
P	mg/L	0.046	-	0.24	0.2	0.1	12	100%
pH	pH Units	6.2	-	7.4	6.8	0.3	12	100%
TDS	mg/L	26	-	560	139.6	152.5	12	100%
TKN	mg/L	0.31	-	2.99	1.1	0.9	12	100%
TOC	mg/L	3.8	-	35	12.3	10.3	12	100%
TSS	mg/L	3.6	-	110	26.1	29.0	12	100%
Turbidity	NTU	8.4	-	29	17.7	6.8	12	100%
<i>Metals</i>								
As (Diss)	ug/L	< 0.5	-	2	1.4	0.3	12	92%
As (Total)	ug/L	< 0.5	-	1.7	1.4	0.2	12	83%
Cd (Diss)	ug/L	< 0.2	-	3.6	0.7	1.1	12	67%
Cd (Total)	ug/L	< 0.2	-	3.9	0.8	1.3	12	92%
Cr (Diss)	ug/L	< 1.0	-	1.5	--	--	12	17%
Cr (Total)	ug/L	< 1.0	-	4.5	2.1	1.0	12	92%
Cu (Diss)	ug/L	3	-	38	16.0	11.8	12	100%
Cu (Total)	ug/L	5.8	-	40	19.3	12.6	12	100%
Ni (Diss)	ug/L	< 2.0	-	18	6.0	5.3	12	92%
Ni (Total)	ug/L	2.8	-	19	7.5	5.0	12	100%
Pb (Diss)	ug/L	< 1.0	-	< 1.0	--	--	12	0%
Pb (Total)	ug/L	1	-	2.7	1.5	0.6	12	100%
Zn (Diss)	ug/L	16	-	110	57.6	34.8	12	100%
Zn (Total)	ug/L	30	-	140	69.0	39.3	12	100%

Table 2.4.3 - Caltrans Site ID 12-245
Water Quality Data Summary

Constituent	Units	Range		Mean	Std Dev	n	% Detected	
<i>Conventional/Nutrients</i>								
DOC	mg/L	5.6	-	30	12.7	8.8	10	100%
EC	umhos/cm	46	-	190	101.9	42.5	10	100%
Hardness as CaCO ₃	mg/L	12	-	59	25.7	14.3	10	100%
NO ₃ -N	mg/L	0.56	-	5.7	1.9	1.5	10	100%
Ortho-P	mg/L	< 0.02	-	0.38	0.1	0.1	10	90%
P	mg/L	0.05	-	0.32	0.1	0.1	10	100%
pH	pH Units	6.3	-	7.2	6.8	0.3	10	100%
TDS	mg/L	38	-	190	82.6	45.7	10	100%
TKN	mg/L	0.33	-	2.99	1.1	0.8	10	100%
TOC	mg/L	6.2	-	33	13.2	9.4	10	100%
TSS	mg/L	2.2	-	59	15.2	17.0	10	100%
Turbidity	NTU	3.6	-	36	13.7	11.0	10	100%
<i>Metals</i>								
As (Diss)	ug/L	1.5	-	4.1	2.8	0.7	10	100%
As (Total)	ug/L	1.5	-	4.1	2.7	0.7	10	100%
Cd (Diss)	ug/L	< 0.2	-	0.33	--	--	10	20%
Cd (Total)	ug/L	< 0.2	-	0.45	0.2	0.1	10	40%
Cr (Diss)	ug/L	< 1.0	-	1.2	--	--	10	10%
Cr (Total)	ug/L	< 1.0	-	9.6	2.5	3.2	10	70%
Cu (Diss)	ug/L	5.1	-	55	19.9	14.9	10	100%
Cu (Total)	ug/L	5.5	-	58	23.1	16.1	10	100%
Ni (Diss)	ug/L	< 2.0	-	8.2	3.7	2.3	10	90%
Ni (Total)	ug/L	2.5	-	9	4.8	2.3	10	100%
Pb (Diss)	ug/L	< 1.0	-	< 1.0	--	--	10	0%
Pb (Total)	ug/L	< 1.0	-	2.2	0.9	0.7	10	40%
Zn (Diss)	ug/L	20	-	240	85.2	71.6	10	100%
Zn (Total)	ug/L	18	-	250	95.7	73.8	10	100%

Table 2.4.4 - Caltrans Site ID 12-248
Water Quality Data Summary

Constituent	Units	Range		Mean	Std Dev	n	% Detected	
<i>Conventional/Nutrients</i>								
DOC	mg/L	2.7	-	33	15.0	11.2	12	100%
EC	umhos/cm	34	-	200	100.7	56.3	12	100%
Hardness as CaCO ₃	mg/L	4.2	-	58	25.3	17.4	12	100%
NO ₃ -N	mg/L	0.61	-	12	3.6	3.7	12	100%
Ortho-P	mg/L	< 0.02	-	0.21	0.08	0.06	12	92%
P	mg/L	0.02	-	0.27	0.1	0.1	12	100%
pH	pH Units	6.1	-	7.2	6.6	0.3	12	100%
TDS	mg/L	31	-	160	93.6	42.9	12	100%
TKN	mg/L	0.24	-	2.96	1.2	0.9	12	100%
TOC	mg/L	2.4	-	34	15.3	11.6	12	100%
TSS	mg/L	< 1.0	-	13	5.2	4.0	12	91%
Turbidity	NTU	1.4	-	8.6	4.6	1.7	12	100%
<i>Metals</i>								
As (Diss)	ug/L	2.1	-	5	3.2	0.9	12	100%
As (Total)	ug/L	1.7	-	4.5	3.0	0.9	12	100%
Cd (Diss)	ug/L	< 0.2	-	0.36	0.3	0.8	12	25%
Cd (Total)	ug/L	< 0.2	-	0.55	0.2	0.2	12	33%
Cr (Diss)	ug/L	< 1.0	-	2.2	--	--	12	8%
Cr (Total)	ug/L	< 1.0	-	3.4	1.7	1.0	12	67%
Cu (Diss)	ug/L	5.2	-	66	32.6	19.9	12	100%
Cu (Total)	ug/L	6.2	-	82	35.4	22.9	12	100%
Ni (Diss)	ug/L	< 2.0	-	8.2	4.3	2.6	12	67%
Ni (Total)	ug/L	< 2.0	-	11	4.7	3.4	12	75%
Pb (Diss)	ug/L	< 1.0	-	< 1.0	--	--	12	0%
Pb (Total)	ug/L	< 1.0	-	2.2	1.1	0.6	12	33%
Zn (Diss)	ug/L	25	-	240	114.4	77.9	12	100%
Zn (Total)	ug/L	27	-	220	113.0	73.3	12	100%

Table 2.4.5 - Caltrans Site ID 12-251
Water Quality Data Summary

Constituent	Units	Range		Mean	Std Dev	n	% Detected	
<i>Conventional/Nutrients</i>								
DOC	mg/L	4.7	-	28	12.5	7.9	8	100%
EC	umhos/cm	120	-	580	303.8	145.1	8	100%
Hardness as CaCO ₃	mg/L	34	-	180	93.8	50.8	8	100%
NO ₃ -N	mg/L	0.76	-	6.2	2.6	1.7	8	100%
Ortho-P	mg/L	0.035	-	0.36	0.1	0.1	8	100%
P	mg/L	< 0.03	-	0.59	0.2	0.2	8	88%
pH	pH Units	7.4	-	8.4	7.8	0.3	8	100%
TDS	mg/L	76	-	400	206.8	101.1	8	100%
TKN	mg/L	0.37	-	2.85	1.2	0.8	8	100%
TOC	mg/L	4.2	-	28	12.7	8.0	8	100%
TSS	mg/L	44	-	540	260.0	174.2	8	100%
Turbidity	NTU	34	-	830	219.1	258.4	8	100%
<i>Metals</i>								
As (Diss)	ug/L	1.6	-	3.7	2.6	0.7	8	100%
As (Total)	ug/L	1.5	-	3.9	2.9	0.7	8	100%
Cd (Diss)	ug/L	< 0.2	-	0.33	--	--	8	13%
Cd (Total)	ug/L	< 0.2	-	1.3	0.4	1.6	8	88%
Cr (Diss)	ug/L	< 1.0	-	4.8	1.6	1.7	8	75%
Cr (Total)	ug/L	3	-	30	12.1	8.9	8	100%
Cu (Diss)	ug/L	3.7	-	45	13.7	13.4	8	100%
Cu (Total)	ug/L	9.2	-	50	23.3	11.9	8	100%
Ni (Diss)	ug/L	< 2.0	-	7.9	3.3	2.4	8	88%
Ni (Total)	ug/L	4.6	-	28	14.9	8.6	8	100%
Pb (Diss)	ug/L	< 1.0	-	< 1.0	--	--	8	0%
Pb (Total)	ug/L	1.6	-	4.1	2.4	0.9	8	100%
Zn (Diss)	ug/L	< 2.0	-	71	23.7	26.0	8	75%
Zn (Total)	ug/L	27	-	77	46.4	18.3	8	100%

Table 2.4.6 - Caltrans Site ID 12-254
Water Quality Data Summary

Constituent	Units	Range		Mean	Std Dev	n	% Detected	
<i>Conventional/Nutrients</i>								
DOC	mg/L	3.3	-	11	6.0	2.4	9	100%
EC	umhos/cm	27	-	180	65.4	47.1	9	100%
Hardness as CaCO ₃	mg/L	2.9	-	39	14.2	11.9	9	100%
NO ₃ -N	mg/L	0.28	-	1.1	0.8	0.25	9	100%
Ortho-P	mg/L	< 0.02	-	0.05	0.0	0.13	9	78%
P	mg/L	0.03	-	0.11	0.1	0.0	9	100%
pH	pH Units	6.37	-	7	6.8	0.2	9	100%
TDS	mg/L	18	-	96	53.7	28.3	9	100%
TKN	mg/L	0.21	-	0.91	0.5	0.3	9	100%
TOC	mg/L	3.4	-	12	6.3	2.6	9	100%
TSS	mg/L	9.6	-	39	20.7	11.2	9	100%
Turbidity	NTU	7.4	-	66	21.3	17.4	9	100%
<i>Metals</i>								
As (Diss)	ug/L	< 0.5	-	1.2	--	--	9	11%
As (Total)	ug/L	< 0.5	-	1.2	--	--	9	22%
Cd (Diss)	ug/L	< 0.2	-	< 0.2	--	--	9	0%
Cd (Total)	ug/L	< 0.2	-	0.46	--	--	9	22%
Cr (Diss)	ug/L	< 1.0	-	3.4	--	--	9	22%
Cr (Total)	ug/L	< 1.0	-	10	3.0	3.4	9	89%
Cu (Diss)	ug/L	7	-	26	13.7	6.0	9	100%
Cu (Total)	ug/L	11	-	39	20.7	9.3	9	100%
Ni (Diss)	ug/L	< 2.0	-	5	1.8	1.7	9	33%
Ni (Total)	ug/L	< 2.0	-	10	2.9	3.8	9	56%
Pb (Diss)	ug/L	< 1.0	-	< 1.0	--	--	9	0%
Pb (Total)	ug/L	1.3	-	5.6	3.0	1.4	9	100%
Zn (Diss)	ug/L	45	-	190	95.2	42.1	9	100%
Zn (Total)	ug/L	65	-	260	133.7	59.1	9	100%

Table 2.4.7 - Caltrans Site ID 12-257
Water Quality Data Summary

Constituent	Units	Range		Mean	Std Dev	n	% Detected	
<i>Conventional/Nutrients</i>								
DOC	mg/L	5.3	-	62	13.9	18.2	9	100%
EC	umhos/cm	79	-	560	183.7	160.8	9	100%
Hardness as CaCO ₃	mg/L	15	-	220	60.9	64.8	9	100%
NO ₃ -N	mg/L	0.41	-	8.7	2.2	2.6	9	100%
Ortho-P	mg/L	< 0.02	-	0.24	0.1	0.1	9	89%
P	mg/L	0.1	-	0.57	0.3	0.2	9	100%
pH	pH Units	6.6	-	7.3	7.1	0.3	9	100%
TDS	mg/L	52	-	420	143.0	112.4	9	100%
TKN	mg/L	0.23	-	5.03	1.3	1.5	9	100%
TOC	mg/L	5.2	-	60	14.3	17.5	9	100%
TSS	mg/L	26	-	660	216.3	199.3	9	100%
Turbidity	NTU	30	-	230	132.1	87.4	9	100%
<i>Metals</i>								
As (Diss)	ug/L	1	-	2.2	1.6	0.4	9	100%
As (Total)	ug/L	1.3	-	4.8	2.8	1.1	9	100%
Cd (Diss)	ug/L	< 0.2	-	< 0.2	--	--	9	0%
Cd (Total)	ug/L	< 0.2	-	0.65	0.4	0.1	9	78%
Cr (Diss)	ug/L	< 1.0	-	3.3	1.2	1.1	9	44%
Cr (Total)	ug/L	4.2	-	25	11.0	7.4	9	100%
Cu (Diss)	ug/L	5.1	-	53	14.5	14.9	9	100%
Cu (Total)	ug/L	14	-	65	25.2	15.9	9	100%
Ni (Diss)	ug/L	< 2.0	-	14	3.4	5.4	9	78%
Ni (Total)	ug/L	4	-	19	10.4	5.2	9	100%
Pb (Diss)	ug/L	< 1.0	-	< 1.0	--	--	9	0%
Pb (Total)	ug/L	1.9	-	9.4	5.3	2.7	9	100%
Zn (Diss)	ug/L	6	-	62	27.0	17.3	9	100%
Zn (Total)	ug/L	49	-	130	85.9	24.3	9	100%

SECTION 3 Treatment Technology Pilot Study Data

3.1 District 2 Sand Filter Study

A summary of the District 2 Sand Filter Study appears in the Runoff Characterization section of this report. (See Section 2, page 6.)

**Table 3.1.0 District 2 Sand Filter Study
Treatment Technology Study Monitoring Sites**

Site ID	Outfall ID	Caltrans District	Regional Board	County	Catchment Area (he)
Mountain Gate					
2-207	Northbound Influent	2	Central Valley	Shasta	0.920
2-208	Mountain Gate Effluent	2	Central Valley	Shasta	1.040
2-209	Shasta Influent	2	Central Valley	Siskiyou	1.060
2-210	Shasta Effluent	2	Central Valley	Siskiyou	1.060

Table 3.1.1 Caltrans Site ID 2-207
Water Quality Data Summary

Constituent	Units	Range		Mean	Std Dev	n	% Detected	
<i>Conventional/Nutrients</i>								
DOC	mg/L	4	-	6	4.8	1.0	6	100%
EC	umhos/cm	25	-	46	36.5	9.1	6	100%
Hardness as CaCO ₃	mg/L	9	-	23	15.0	5.1	6	100%
NH ₃ -N	mg/L	< 0.1	-	1	--	--	6	33%
NO ₃ -N	mg/L	< 0.1	-	2	--	--	6	33%
Ortho-P	mg/L	< 0.02	-	0.02	--	--	6	83%
P	mg/L	< 0.03	-	< 0.03	--	--	6	0%
TDS	mg/L	< 1.0	-	40	24.0	12.0	6	83%
TKN	mg/L	< 0.1	-	1	--	--	6	83%
TOC	mg/L	4	-	7	5.0	1.1	6	100%
TSS	mg/L	21	-	87	52.3	27.9	6	100%
Turbidity	NTU	12	-	38	25.0	9.5	6	100%
<i>Metals</i>								
As (Diss)	ug/L	< 0.5	-	1	--	--	6	17%
As (Total)	ug/L	< 0.5	-	1	--	--	6	67%
Cd (Diss)	ug/L	< 0.2	-	0.2	--	--	6	83%
Cd (Total)	ug/L	< 0.2	-	< 0.2	--	--	6	0%
Cr (Diss)	ug/L	< 1.0	-	2	--	--	6	83%
Cr (Total)	ug/L	1	-	3	2.3	0.8	6	100%
Cu (Diss)	ug/L	1	-	6	3.7	1.6	6	100%
Cu (Total)	ug/L	2	-	15	9.7	4.5	6	100%
Fe (Diss)	ug/L	15	-	841	163.0	332.2	6	100%
Fe (Total)	ug/L	27	-	1260	957.8	464.6	6	100%
Ni (Diss)	ug/L	< 2.0	-	2	--	--	6	83%
Ni (Total)	ug/L	1	-	4	3.0	1.3	6	100%
Pb (Diss)	ug/L	< 1.0	-	< 1.0	--	--	6	0%
Pb (Total)	ug/L	< 1.0	-	7	4.0	2.0	6	83%
Zn (Diss)	ug/L	11	-	53	28.2	17.8	6	100%
Zn (Total)	ug/L	10	-	105	66.0	32.3	6	100%

**Table 3.1.2 Caltrans Site ID 2-208
Water Quality Data Summary**

Constituent	Units	Range		Mean	Std Dev	n	% Detected	
<i>Conventional/Nutrients</i>								
TSS	mg/L	< 1.0	-	29	5.9	11.1	9	56%
TDS	mg/L	19	-	94	49.4	22.3	9	100%
Turbidity	NTU	4	-	24	12.4	6.8	9	100%
EC	umhos/cm	51	-	103	75.7	17.7	9	100%
Hardness as CaCO ₃	mg/L	27	-	57	38.4	9.9	9	100%
TOC	mg/L	2	-	20	6.0	5.4	9	100%
DOC	mg/L	2	-	18	5.3	4.9	9	100%
NH ₃ -N	mg/L	< 0.1	-	< 0.1	--	--	9	0%
NO ₃ -N	mg/L	< 0.1	-	2	--	--	9	78%
Ortho-Phosphate	mg/L	< 0.02	-	0.02	--	--	9	33%
Total Phosphorous	mg/L	< 0.3	-	< 0.3	--	--	9	0%
TKN	mg/L	< 0.1	-	1	--	--	9	22%
<i>Metals</i>								
As (Diss)	ug/L	< 0.5	-	1	--	--	9	33%
As (Total)	ug/L	< 0.5	-	1	--	--	9	56%
Cd (Diss)	ug/L	< 0.2	-	0.2	--	--	9	22%
Cd (Total)	ug/L	< 0.2	-	< 0.2	--	--	9	0%
Cr (Diss)	ug/L	< 1.0	-	3	1.4	0.8	9	89%
Cr (Total)	ug/L	1	-	7	2.3	2.1	9	100%
Cu (Diss)	ug/L	1	-	8	2.0	2.3	9	100%
Cu (Total)	ug/L	1	-	9	3.3	2.4	9	100%
Fe (Diss)	ug/L	43	-	86	62.4	13.1	9	100%
Fe (Total)	ug/L	135	-	627	340.9	164.9	9	100%
Ni (Diss)	ug/L	1	-	3	1.3	0.7	9	100%
Ni (Total)	ug/L	1	-	6	2.8	1.5	9	100%
Pb (Diss)	ug/L	< 1.0	-	1	--	--	9	11%
Pb (Total)	ug/L	< 1.0	-	1	--	--	9	33%
Zn (Diss)	ug/L	7	-	7	2.2	2.6	9	44%
Zn (Total)	ug/L	8	-	8	4.8	1.9	9	89%

Table 3.1.3 Caltrans Site ID 2-209
Water Quality Data Summary

Constituent	Units	Range		Mean	Std Dev	n	% Detected	
<i>Conventional/Nutrients</i>								
TSS	mg/L	2	-	48	17.3	19.5	8	100%
TDS	mg/L	5	-	157	49.6	48.5	8	100%
Turbidity	NTU	1	-	33	6.4	10.1	8	100%
pH	pH Units	7	-	7	7.0	--	1	100%
EC	umhos/cm	18	-	139	66.1	43.6	8	100%
Hardness as CaCO ₃	mg/L	6	-	50	22.6	15.9	8	100%
TOC	mg/L	2	-	8	4.0	2.1	8	100%
DOC	mg/L	2	-	8	3.9	2.1	8	100%
TKN	mg/L	< 0.1	-	1	--	--	8	38%
NH ₃ -N	mg/L	< 0.1	-	1	--	--	8	13%
NO ₃ -N	mg/L	< 0.1	-	1	--	--	8	13%
Total P	mg/L	<0.03	-	<0.03	--	--	8	0%
Ortho-P	mg/L	< 0.02	-	0.02	--	--	8	38%
<i>Metals</i>								
As (Diss)	ug/L	< 0.5	-	1	--	--	8	25%
As (Total)	ug/L	< 0.5	-	1	--	--	8	38%
Cd (Diss)	ug/L	< 0.2	-	< 0.2	--	--	8	0%
Cd (Total)	ug/L	< 0.2	-	< 0.2	--	--	8	0%
Cr (Diss)	ug/L	< 1.0	-	< 1.0	--	--	8	0%
Cr (Total)	ug/L	< 1.0	-	2	--	--	8	88%
Cu (Diss)	ug/L	< 1.0	-	7	2.0	2.5	8	88%
Cu (Total)	ug/L	< 1.0	-	10	3.8	3.3	8	88%
Fe (Diss)	ug/L	8	-	56	18.3	16.1	8	100%
Fe (Total)	ug/L	54	-	1670	657.9	533.6	8	100%
Ni (Diss)	ug/L	< 2.0	-	3	--	--	8	38%
Ni (Total)	ug/L	< 2.0	-	5	2.3	1.8	8	88%
Pb (Diss)	ug/L	< 1.0	-	< 1.0	--	--	8	0%
Pb (Total)	ug/L	< 1.1	-	2	--	--	8	75%
Zn (Diss)	ug/L	< 2.0	-	49	16.4	17.1	8	88%
Zn (Total)	ug/L	< 2.1	-	65	30.4	19.6	8	88%

**Table 3.1.4 Caltrans Site ID 2-210
Water Quality Data Summary**

Constituent	Units	Range		Mean	Std Dev	n	% Detected	
<i>Conventional/Nutrients</i>								
TSS	mg/L	< 1.0	-	36	5.5	14.7	9	33%
TDS	mg/L	5	-	157	49.6	48.5	9	100%
Turbidity	NTU	1	-	33	6.4	10.1	9	100%
pH	pH Units	7	-	7	7.0	--	1	100%
EC	umhos/cm	18	-	139	66.1	43.6	8	100%
Hardness as CaCO ₃	mg/L	6	-	50	22.6	15.9	9	100%
TOC	mg/L	2	-	8	4.0	2.1	9	100%
DOC	mg/L	2	-	8	3.9	2.1	9	100%
TKN	mg/L	< 0.1	-	< 0.1	--	--	9	0%
NH ₃ -N	mg/L	< 0.1	-	< 0.1	--	--	9	0%
NO ₃ -N	mg/L	< 0.1	-	1	--	--	9	33%
Total P	mg/L	< 0.03	-	< 0.03	--	--	9	0%
Ortho-P	mg/L	< 0.02	-	0.2	--	--	9	22%
<i>Metals</i>								
As (Diss)	ug/L	< 0.5	-	1	--	--	9	11%
As (Total)	ug/L	< 0.5	-	1	--	--	9	33%
Cd (Diss)	ug/L	< 0.2	-	0.2	--	--	9	11%
Cd (Total)	ug/L	< 0.2	-	< 0.2	--	--	9	0%
Cr (Diss)	ug/L	< 1.0	-	1	--	--	9	33%
Cr (Total)	ug/L	< 1.0	-	1	--	--	9	44%
Cu (Diss)	ug/L	< 1.0	-	4	1.8	1.4	9	89%
Cu (Total)	ug/L	< 1.0	-	5	1.9	1.6	9	89%
Fe (Diss)	ug/L	13	-	70	36.4	21.3	9	100%
Fe (Total)	ug/L	31	-	392	107.2	111.6	9	100%
Ni (Diss)	ug/L	< 2.0	-	1	--	--	9	44%
Ni (Total)	ug/L	< 2.0	-	1	--	--	9	44%
Pb (Diss)	ug/L	< 1.0	-	< 1.0	--	--	9	0%
Pb (Total)	ug/L	< 1.1	-	< 1.1	--	--	9	0%
Zn (Diss)	ug/L	< 2.0	-	10	3.5	3.1	9	78%
Zn (Total)	ug/L	< 2.1	-	28	6.5	10.3	9	67%

3.2 Tahoe Basin Full-Scale Activated Alumina Filter Media Pilot Study

A summary of the Tahoe Basin Full-Scale Activated Alumina Filter Media Pilot Study appears in the Runoff Characterization section of this report. (See Section 2, page 9.)

**Table 3.2.0 Tahoe Basin Full-Scale Activated Alumina Filter Media Pilot Study
Treatment Technology Study Monitoring Sites**

Site ID	Outfall ID	Caltrans District	Regional Board	County	Catchment Area (he)
3-234	Basin B103 Influent	3	Central Valley	El Dorado	0.230
3-235	Basin B103 Effluent	3	Central Valley	El Dorado	0.280
3-237	Basin B111 Influent	3	Central Valley	El Dorado	0.350
3-238	Basin B111 Effluent	3	Central Valley	El Dorado	0.400
3-239	Basin B111 Overflow	3	Central Valley	El Dorado	0.400

Table 3.2.1 Caltrans Site ID 3-234
Water Quality Data Summary

Constituent	Units	Range		Mean	Std Dev	n	% Detected	
<i>Conventional/Nutrients</i>								
TSS	mg/L	168	-	968	410.4	256.3	9	100%
TDS	mg/L	362	-	2748	1308.0	849.4	9	100%
Turbidity	NTU	204	-	1401	544.3	434.8	9	100%
pH	pH Units	6.8	-	7.4	7.0	0.2	9	100%
EC	umhos/cm	716	-	5830	3131.3	2006.6	9	100%
Hardness as CaCO ₃	mg/L	24	-	62	41.1	13.5	9	100%
TOC	mg/L	4.7	-	29.4	12.3	7.8	9	100%
DOC	mg/L	3.8	-	22.8	8.1	6.5	9	100%
TKN	mg/L	0.57	-	2.32	1.2	0.5	9	100%
NH ₃ -N	mg/L	0.12	-	0.9	0.4	0.2	9	100%
NO ₂ -N	mg/L	< 0.1	-	0.47	0.1	0.2	9	56%
NO ₃ -N	mg/L	< 0.1	-	0.43	0.2	0.1	9	67%
Total P	mg/L	< 0.03	-	0.17	0.03	0.6	9	44%
Ortho-P	mg/L	< 0.02	-	0.12	--	--	9	33%
Oil & Grease	mg/L	5	-	56	17.0	35.0	9	75%
<i>Metals</i>								
Al (Diss)	ug/L	380.4	-	1586	796.7	412.1	9	100%
Al (Total)	ug/L	3482	-	11800	6886.6	3408.8	9	100%
As (Diss)	ug/L	1	-	5.6	3.2	1.4	9	100%
As (Total)	ug/L	2.5	-	6.5	4.1	1.4	9	100%
Cd (Diss)	ug/L	< 0.2	-	0.6	--	--	9	56%
Cd (Total)	ug/L	< 0.2	-	1.1	0.4	0.4	9	67%
Cr (Diss)	ug/L	2.5	-	16	7.1	3.8	9	100%
Cr (Total)	ug/L	8.1	-	30	14.6	6.5	9	100%
Cu (Diss)	ug/L	4.1	-	16	7.4	3.6	9	100%
Cu (Total)	ug/L	19	-	61	31.4	14.2	9	100%
Fe (Diss)	ug/L	540	-	2640	1284.3	713.9	9	100%
Fe (Total)	ug/L	5010	-	17200	9922.2	4627.2	9	100%
Ni (Diss)	ug/L	2	-	5.1	2.9	0.9	9	100%
Ni (Total)	ug/L	7.2	-	22	11.6	5.0	9	100%
Pb (Diss)	ug/L	1	-	6	2.0	1.9	9	78%
Pb (Total)	ug/L	7	-	34	16.1	8.7	9	100%
Zn (Diss)	ug/L	28	-	65	43.4	12.9	9	100%
Zn (Total)	ug/L	120	-	380	198.9	102.6	9	100%

**Table 3.2.2 Caltrans Site ID 3-235
Water Quality Data Summary**

Constituent	Units	Range		Mean	Std Dev	n	% Detected	
<i>Conventional/Nutrients</i>								
TSS	mg/L	< 1.0	-	115	25.1	43.0	9	89%
TDS	mg/L	440	-	2348	1202.4	644.8	9	100%
Turbidity	NTU	7.5	-	64.4	25.5	20.3	9	100%
pH	pH Units	6.6	-	7.6	7.0	0.3	9	100%
EC	umhos/cm	938	-	4850	2705.2	1394.9	9	100%
Hardness as CaCO ₃	mg/L	18	-	84	43.0	20.7	9	100%
TOC	mg/L	3.5	-	10.6	5.7	2.3	9	100%
DOC	mg/L	3.4	-	9.8	4.8	2.1	9	100%
NH ₃ -N	mg/L	< 0.1	-	0.89	--	--	9	22%
NO ₂ -N	mg/L	< 0.1	-	0.15	--	--	9	22%
NO ₃ -N	mg/L	0.13	-	0.8	0.4	0.3	9	100%
TKN	mg/L	< 0.1	-	1.02	0.3	0.7	9	67%
Total P	mg/L	< 0.03	-	0.15	--	--	9	11%
Ortho-P	mg/L	< 0.02	-	0.12	--	--	9	22%
Oil & Grease	mg/L	5	-	10	--	--	9	25%
<i>Metals</i>								
Al (Diss)	ug/L	59.4	-	654.6	335.0	190.7	9	100%
Al (Total)	ug/L	60.2	-	1010	517.7	268.2	9	100%
As (Diss)	ug/L	< 0.5	-	1.7	0.9	0.4	9	78%
As (Total)	ug/L	< 0.5	-	2.6	1.2	0.8	9	67%
Cd (Diss)	ug/L	< 0.2	-	< 0.2	--	--	9	0%
Cd (Total)	ug/L	< 0.2	-	0.2	--	--	9	11%
Cr (Diss)	ug/L	2.2	-	8.4	4.2	1.8	9	100%
Cr (Total)	ug/L	2.9	-	9.9	5.1	2.4	9	100%
Cu (Diss)	ug/L	< 1.0	-	5.2	1.7	1.7	9	67%
Cu (Total)	ug/L	< 1.0	-	7.9	2.6	2.5	9	78%
Fe (Diss)	ug/L	36.6	-	727	365.1	239.0	9	100%
Fe (Total)	ug/L	40.4	-	1200	640.3	372.8	9	100%
Ni (Diss)	ug/L	< 2.0	-	< 2.0	--	--	9	0%
Ni (Total)	ug/L	< 2.0	-	< 2.0	--	--	9	0%
Pb (Diss)	ug/L	< 1.0	-	1.6	1.0	0.4	9	44%
Pb (Total)	ug/L	< 1.0	-	4.7	1.4	1.7	9	44%
Zn (Diss)	ug/L	< 2.0	-	20	6.9	6.8	9	44%
Zn (Total)	ug/L	< 2.0	-	22	9.3	7.0	9	56%

Table 3.2.3 Caltrans Site ID 3-237
Water Quality Data Summary

Constituent	Units	Range		Mean	Std Dev	n	% Detected	
<i>Conventional/Nutrients</i>								
TSS	mg/L	3	-	541	197.3	200.2	9	100%
TDS	mg/L	85	-	1930	676.1	651.2	9	100%
Turbidity	NTU	11.8	-	804	236.9	234.9	9	100%
pH	pH Units	6.5	-	7.2	6.9	0.2	9	100%
EC	umhos/cm	100	-	5032.4	1394.9	1549.8	9	100%
Hardness as CaCO ₃	mg/L	8	-	112	55.4	30.9	9	100%
TOC	mg/L	3.9	-	30.5	10.6	8.0	9	100%
DOC	mg/L	1	-	24.7	7.5	6.8	9	100%
TKN	mg/L	0.12	-	1.53	0.6	0.5	9	100%
NH ₃ -N	mg/L	< 0.1	-	0.82	0.2	0.3	9	33%
NO ₂ -N	mg/L	< 0.1	-	0.16	--	--	9	22%
NO ₃ -N	mg/L	< 0.1	-	0.3	0.2	0.1	9	67%
Total P	mg/L	< 0.03	-	0.18	0.09	0.06	9	78%
Ortho-P	mg/L	< 0.02	-	0.2	0.08	0.06	9	67%
Oil & Grease	mg/L	5	-	40	--	--	9	50%
<i>Metals</i>								
Al (Diss)	ug/L	272	-	1092	572.9	281.5	9	100%
Al (Total)	ug/L	751.2	-	8381	3632.5	2883.7	9	100%
As (Diss)	ug/L	0.5	-	4.2	2.1	1.3	9	100%
As (Total)	ug/L	1	-	5.1	2.7	1.5	9	100%
Cd (Diss)	ug/L	< 0.2	-	0.3	--	--	9	44%
Cd (Total)	ug/L	< 0.2	-	0.6	0.3	0.2	9	56%
Cr (Diss)	ug/L	< 1.0	-	12	4.1	3.8	9	89%
Cr (Total)	ug/L	1.5	-	19	7.9	5.5	9	100%
Cu (Diss)	ug/L	2.9	-	14	6.3	3.2	9	100%
Cu (Total)	ug/L	7.3	-	41	17.8	13.2	9	100%
Fe (Diss)	ug/L	81.4	-	1368	854.9	424.8	9	100%
Fe (Total)	ug/L	320	-	12100	4893.0	4125.6	9	100%
Ni (Diss)	ug/L	< 2.0	-	4.8	2.7	1.4	9	44%
Ni (Total)	ug/L	< 2.0	-	15	5.9	5.0	9	78%
Pb (Diss)	ug/L	< 1.0	-	6.3	1.7	2.3	9	78%
Pb (Total)	ug/L	1.9	-	22	8.5	7.8	9	100%
Zn (Diss)	ug/L	< 2.0	-	76	35.0	22.7	9	89%
Zn (Total)	ug/L	16	-	300	116.6	102.1	9	100%

**Table 3.2.4 Caltrans Site ID 3-238
Water Quality Data Summary**

Constituent	Units	Range		Mean	Std Dev	n	% Detected	
<i>Conventional/Nutrients</i>								
TSS	mg/L	< 1.0	-	106	26.3	35.5	10	90%
TDS	mg/L	134	-	960	517.7	298.8	10	100%
Turbidity	NTU	9.7	-	171	46.3	51.9	10	100%
pH	pH Units	6.5	-	7.2	6.9	0.2	10	100%
EC	umhos/cm	250	-	1660	1031.5	543.6	10	100%
Hardness as CaCO ₃	mg/L	16	-	74	48.0	20.9	10	100%
TOC	mg/L	2.6	-	12.3	6.2	3.6	10	100%
DOC	mg/L	< 1.0	-	9	4.6	2.4	10	90%
TKN	mg/L	< 0.1	-	0.63	0.2	0.2	10	60%
NH ₃ -N	mg/L	< 0.1	-	0.26	--	--	10	20%
NO ₂ -N	mg/L	< 0.1	-	0.15	--	--	10	20%
NO ₃ -N	mg/L	< 0.1	-	0.32	0.1	0.09	10	60%
Total P	mg/L	< 0.03	-	0.18	0.04	0.08	10	30%
Ortho-P	mg/L	< 0.02	-	0.13	0.05	0.06	10	30%
Oil & Grease	mg/L	< 5.0	-	< 5.0	--	--	5	0%
<i>Metals</i>								
Al (Diss)	ug/L	25	-	677	371.6	177.1	10	90%
Al (Total)	ug/L	328.3	-	2341	822.9	624.3	10	100%
As (Diss)	ug/L	< 0.5	-	3.9	1.2	1.2	10	80%
As (Total)	ug/L	< 0.5	-	1.8	1.1	0.5	10	80%
Cd (Diss)	ug/L	< 0.2	-	0.2	--	--	10	20%
Cd (Total)	ug/L	< 0.2	-	0.3	--	--	10	20%
Cr (Diss)	ug/L	< 1.0	-	5.9	2.5	1.7	10	80%
Cr (Total)	ug/L	1.2	-	9	3.9	2.9	10	100%
Cu (Diss)	ug/L	1.1	-	8.7	2.7	2.3	10	100%
Cu (Total)	ug/L	1.4	-	15	4.7	4.3	10	100%
Fe (Diss)	ug/L	160	-	1280	452.7	321.7	10	100%
Fe (Total)	ug/L	364	-	3750	1138.9	1023.3	10	100%
Ni (Diss)	ug/L	< 2.0	-	2.3	--	--	10	10%
Ni (Total)	ug/L	< 2.0	-	4.4	--	--	10	10%
Pb (Diss)	ug/L	< 1.0	-	1.8	0.8	0.6	10	30%
Pb (Total)	ug/L	< 1.0	-	5.8	2.0	1.8	10	70%
Zn (Diss)	ug/L	< 2.0	-	45	11.0	15.0	10	80%
Zn (Total)	ug/L	5.3	-	90	22.7	25.6	10	100%

Table 3.2.5 Caltrans Site ID 3-239
Water Quality Data Summary

Constituent	Units	Range		Mean	Std Dev	n	% Detected	
<i>Conventional/Nutrients</i>								
TSS	mg/L	89	-	89	89.0	--	1	100%
TDS	mg/L	56	-	56	56.0	--	1	100%
Turbidity	NTU	31.9	-	31.9	31.9	--	1	100%
pH	pH Units	6.3	-	6.3	6.3	--	1	100%
EC	umhos/cm	208	-	208	208.0	--	1	100%
Hardness as CaCO ₃	mg/L	24	-	24	24.0	--	1	100%
TOC	mg/L	4	-	4	4.0	--	1	100%
DOC	mg/L	4	-	4	4.0	--	1	100%
TKN	mg/L	0.78	-	0.78	0.8	--	1	100%
NH ₃ -N	mg/L	< 0.1	-	< 0.1	< 0.1	--	1	0%
NO ₂ -N	mg/L	< 0.1	-	< 0.1	< 0.1	--	1	0%
NO ₃ -N	mg/L	< 0.1	-	< 0.1	< 0.1	--	1	0%
Total P	mg/L	0.15	-	0.15	0.2	--	1	100%
Dissolved P	mg/L	0.14	-	0.14	0.1	--	1	100%
Ortho-P	mg/L	< 0.02	-	< 0.02	< 0.02	--	1	0%
Oil & Grease	mg/L	< 2.5	-	< 2.5	< 2.5	--	1	0%
<i>Metals</i>								
Al (Diss)	ug/L	452.8	-	452.8	452.8	--	1	100%
Al (Total)	ug/L	2072	-	2072	2072.0	--	1	100%
As (Diss)	ug/L	1.8	-	1.8	1.8	--	1	100%
As (Total)	ug/L	1.9	-	1.9	1.9	--	1	100%
Cd (Diss)	ug/L	< 0.2	-	< 0.2	< 0.2	--	1	0%
Cd (Total)	ug/L	< 0.2	-	< 0.2	< 0.2	--	1	0%
Cr (Diss)	ug/L	4.1	-	4.1	4.1	--	1	100%
Cr (Total)	ug/L	6.2	-	6.2	6.2	--	1	100%
Cu (Diss)	ug/L	6.5	-	6.5	6.5	--	1	100%
Cu (Total)	ug/L	17	-	17	17.0	--	1	100%
Fe (Diss)	ug/L	627	-	627	627.0	--	1	100%
Fe (Total)	ug/L	2490	-	2490	2490.0	--	1	100%
Ni (Diss)	ug/L	< 1.0	-	< 1.0	< 1.0	--	1	0%
Ni (Total)	ug/L	3.7	-	3.7	3.7	--	1	100%
Pb (Diss)	ug/L	1.2	-	1.2	1.2	--	1	100%
Pb (Total)	ug/L	5.5	-	5.5	5.5	--	1	100%
Zn (Diss)	ug/L	23	-	23	23.0	--	1	100%
Zn (Total)	ug/L	73	-	73	73.0	--	1	100%

3.3 Tahoe Basin Sand Trap with Filter Fabric (TR2000) Pilot Study

A summary of the Tahoe Basin Sand Trap with Filter Fabric Pilot Study appears in the Runoff Characterization section of this report. (See Section 2, page 12.)

Table 3.3.0 Tahoe Basin Sand Trap with Filter Fabric (TR2000) Pilot Study Treatment Technology Study Monitoring Sites

Site ID	Outfall ID	Caltrans District	Regional Board	County	Catchment Area (he)
3-301	Sand Trap #1 Influent	3	Lahontan	Placer	0.200
3-302	Sand Trap #1 Effluent	3	Lahontan	Placer	0.200
3-304	Sand Trap #2 Influent	3	Lahontan	Placer	0.110
3-305	Sand Trap #2 Effluent	3	Lahontan	Placer	0.110

Table 3.3.1 Caltrans Site ID 3-301
Water Quality Data Summary

Constituent	Units	Range		Mean	Std Dev	n	% Detected	
<i>Conventional/Nutrients</i>								
TSS	mg/L	72	-	1409	396.5	449.1	10	100%
Turbidity	NTU	184	-	2480	772.8	892.7	10	100%

Table 3.3.2 Caltrans Site ID 3-302
Water Quality Data Summary

Constituent	Units	Range		Mean	Std Dev	n	% Detected	
<i>Conventional/Nutrients</i>								
TSS	mg/L	23	-	636	160.4	200.0	10	100%
Turbidity	NTU	35	-	1206	250.5	341.2	10	100%

Table 3.3.3 Caltrans Site ID 3-304
Water Quality Data Summary

Constituent	Units	Range		Mean	Std Dev	n	% Detected	
<i>Conventional/Nutrients</i>								
TSS	mg/L	115	-	1925	767.9	590.5	9	100%
Turbidity	NTU	79.2	-	1879	822.8	582.8	9	100%

Table 3.3.4 Caltrans Site ID 3-305
Water Quality Data Summary

Constituent	Units	Range		Mean	Std Dev	n	% Detected	
<i>Conventional/Nutrients</i>								
TSS	mg/L	41	-	480	170.9	146.9	9	100%
Turbidity	NTU	62.6	-	943	305.8	264.2	9	100%

3.4 SR-73 Treatment Technology Pilot Study

A summary of the SR-73 Treatment Technology Pilot Study appears in the Runoff Characterization section of this report. (See Section 2, page 14.)

**Table 3.4.0 SR-73 Treatment Technology Pilot Study
Treatment Technology Study Monitoring Sites**

Site ID	Outfall ID	Caltrans District	Regional Board	County	Catchment Area (he)
12-236	883L Inlet	12	San Diego	Orange	2.0
12-237	883L Outlet	12	San Diego	Orange	2.0
12-238	883L Bypass	12	San Diego	Orange	2.0
12-239	893L Inlet	12	San Diego	Orange	2.28
12-240	893L Outlet	12	San Diego	Orange	2.28
12-241	893L Bypass	12	San Diego	Orange	2.28
12-242	922R E Inlet	12	Santa Ana	Orange	8.8
12-243	922R E Outlet	12	Santa Ana	Orange	8.8
12-244	922R E Bypass	12	Santa Ana	Orange	8.8
12-245	922R W Inlet	12	Santa Ana	Orange	6.4
12-246	922R W Outlet	12	Santa Ana	Orange	6.4
12-247	922R W Overflow	12	Santa Ana	Orange	6.4
12-248	930L Inlet	12	Santa Ana	Orange	1.48
12-249	930L Outlet	12	Santa Ana	Orange	1.48
12-250	930L Bypass	12	Santa Ana	Orange	1.48
12-251	1032R Inlet	12	Santa Ana	Orange	10.8
12-252	1032R Outlet	12	Santa Ana	Orange	10.8
12-253	1032R Overflow	12	Santa Ana	Orange	10.8
12-254	1137L Inlet	12	Santa Ana	Orange	0.52
12-255	1137L Outlet	12	Santa Ana	Orange	0.52
12-256	1137L Overflow	12	Santa Ana	Orange	0.52
12-257	1143L Inlet	12	Santa Ana	Orange	0.28
12-258	1143L Outlet	12	Santa Ana	Orange	0.28
12-259	1143L Overflow	12	Santa Ana	Orange	0.28

Table 3.4.1 Caltrans Site ID 12-236
Water Quality Data Summary

Constituent	Units	Range		Mean	Std Dev	n	% Detected	
<i>Conventional/Nutrients</i>								
DOC	mg/L	2.7	-	29	10.4	9.2	12	100%
EC	umhos/cm	24	-	370	157.3	119.2	12	100%
Hardness as CaCO ₃	mg/L	6.5	-	150	46.5	47.1	12	100%
NO ₃ -N	mg/L	0.58	-	4.8	1.6	1.3	12	100%
Ortho-P	mg/L	0.02	-	0.098	0.0	0.0	12	100%
P	mg/L	0.057	-	0.34	0.1	0.1	12	100%
pH	pH Units	6.4	-	7.4	6.8	0.3	12	100%
TDS	mg/L	11	-	290	106.2	85.7	12	100%
TKN	mg/L	0.19	-	5.17	1.7	1.6	12	100%
TOC	mg/L	2.8	-	30	10.8	9.5	12	100%
TSS	mg/L	13	-	190	53.3	48.7	12	100%
Turbidity	NTU	11	-	280	51.1	73.4	12	100%
<i>Metals</i>								
As (Diss)	ug/L	1.7	-	5.1	3.3	1.2	12	100%
As (Total)	ug/L	1.8	-	6	3.9	1.4	12	100%
Cd (Diss)	ug/L	< 0.2	-	4.1	0.8	1.3	12	58%
Cd (Total)	ug/L	< 0.2	-	5	1.0	1.6	12	92%
Cr (Diss)	ug/L	< 1.0	-	1.7	0.7	0.5	12	25%
Cr (Total)	ug/L	1.3	-	13	4.6	3.1	12	100%
Cu (Diss)	ug/L	3	-	58	19.0	17.9	12	100%
Cu (Total)	ug/L	5.2	-	63	25.2	18.2	12	100%
Ni (Diss)	ug/L	< 2.0	-	1.7	6.7	6.3	12	67%
Ni (Total)	ug/L	2.8	-	24	9.2	6.6	12	100%
Pb (Diss)	ug/L	< 1.0	-	22	6.7	6.3	12	67%
Pb (Total)	ug/L	1.3	-	9.4	3.9	2.0	12	100%
Zn (Diss)	ug/L	< 2.0	-	160	55.6	53.0	12	92%
Zn (Total)	ug/L	25	-	160	72.8	47.6	12	100%

Table 3.4.1 Caltrans Site ID 12-237
Water Quality Data Summary

Constituent	Units	Range		Mean	Std Dev	n	% Detected	
<i>Conventional/Nutrients</i>								
DOC	mg/L	3.3	-	22	8.2	6.9	12	100%
EC	UMHOS/CM	38	-	940	188.8	249.0	12	100%
Hardness as CaCO ₃	mg/L	6.3	-	320	57.1	87.2	12	100%
NO ₃ -N	mg/L	0.65	-	4.9	1.5	1.5	12	100%
Ortho-P	mg/L	< 0.02	-	0.14	0.06	0.04	12	92%
P	mg/L	0.03	-	0.28	0.1	0.1	12	100%
pH	pH Units	6	-	7.6	6.7	0.4	12	100%
TDS	mg/L	6.2	-	640	123.1	175.1	12	100%
TKN	mg/L	0.17	-	3.27	1.1	0.9	12	100%
TOC	mg/L	3.3	-	22	8.3	7.0	12	100%
TSS	mg/L	< 1.0	-	110	50.0	38.0	12	92%
Turbidity	NTU	8.4	-	380	60.6	102.1	12	100%
<i>Metals</i>								
As (Diss)	ug/L	1.7	-	4.9	3.5	1.1	12	100%
As (Total)	ug/L	1.6	-	5.1	3.9	1.2	12	100%
Cd (Diss)	ug/L	< 0.2	-	2.2	0.6	0.7	12	50%
Cd (Total)	ug/L	< 0.2	-	3	0.7	0.9	12	92%
Cr (Diss)	ug/L	< 1.0	-	2.9	1.0	0.8	12	50%
Cr (Total)	ug/L	2.2	-	7.9	5.0	1.8	12	100%
Cu (Diss)	ug/L	3.4	-	40	13.8	12.4	12	100%
Cu (Total)	ug/L	6.7	-	56	20.5	15.5	12	100%
Ni (Diss)	ug/L	< 2.0	-	12	4.4	5.6	12	75%
Ni (Total)	ug/L	2.2	-	16	7.2	4.1	12	100%
Pb (Diss)	ug/L	< 1.0	-	< 1.0	--	--	12	0%
Pb (Total)	ug/L	1.7	-	7.6	4.0	2.0	12	100%
Zn (Diss)	ug/L	6.5	-	420	78.5	117.8	12	100%
Zn (Total)	ug/L	24	-	550	107.5	149.1	12	100%

Table 3.4.1 Caltrans Site ID 12-238
Water Quality Data Summary

Constituent	Units	Range		Mean	Std Dev	n	% Detected	
<i>Conventional/Nutrients</i>								
DOC	mg/L	2.6	-	3.9	3.2	0.6	4	100%
EC	umhos/cm	91	-	230	170.3	66.4	4	100%
Hardness as CaCO ₃	mg/L	30	-	79	55.5	24.1	4	100%
NO ₃ -N	mg/L	0.59	-	1.4	1.0	0.3	4	100%
Ortho-P	mg/L	0.037	-	0.17	0.1	0.1	4	100%
P	mg/L	0.05	-	1.1	0.5	0.4	4	100%
pH	pH Units	6.6	-	7.1	6.9	0.2	4	100%
TDS	mg/L	74	-	150	109.8	36.2	4	100%
TKN	mg/L	0.37	-	0.669	0.5	0.1	4	100%
TOC	mg/L	2.8	-	4.6	3.7	0.7	4	100%
TSS	mg/L	11	-	1100	527.8	516.7	4	100%
Turbidity	NTU	45	-	220	105.0	80.3	4	100%
<i>Metals</i>								
As (Diss)	ug/L	1.6	-	3.1	2.3	0.6	4	100%
As (Total)	ug/L	3.5	-	6.1	4.6	1.2	4	100%
Cd (Diss)	ug/L	0.21	-	0.95	0.4	0.3	4	100%
Cd (Total)	ug/L	2.1	-	3.9	2.8	0.8	4	100%
Cr (Diss)	ug/L	< 1.0	-	< 1.0	--	--	4	0%
Cr (Total)	ug/L	1.7	-	15	10.0	6.1	4	100%
Cu (Diss)	ug/L	3.6	-	9.4	6.1	2.6	4	100%
Cu (Total)	ug/L	6.6	-	22	14.7	7.1	4	100%
Ni (Diss)	ug/L	2.7	-	7.8	5.1	2.1	4	100%
Ni (Total)	ug/L	10	-	21	15.5	4.7	4	100%
Pb (Diss)	ug/L	< 1.0	-	< 1.0	--	--	4	0%
Pb (Total)	ug/L	1.8	-	5.7	4.0	1.9	4	100%
Zn (Diss)	ug/L	5.9	-	24	11.3	8.6	4	100%
Zn (Total)	ug/L	27	-	210	90.5	82.1	4	100%

Table 3.4.1 Caltrans Site ID 12-239
Water Quality Data Summary

Constituent	Units	Range		Mean	Std Dev	n	% Detected	
<i>Conventional/Nutrients</i>								
DOC	mg/L	3.8	-	21	9.0	6.4	12	100%
EC	umhos/cm	66	-	1000	328.4	363.6	12	100%
Hardness as CaCO ₃	mg/L	15	-	440	127.3	157.3	12	100%
NO ₃ -N	mg/L	0.54	-	4.5	1.5	1.2	12	100%
Ortho-P	mg/L	0.02	-	0.22	0.1	0.1	12	100%
P	mg/L	0.054	-	0.22	0.1	0.1	12	100%
pH	pH Units	6.7	-	7.7	7.0	0.3	12	100%
TDS	mg/L	46	-	770	247.8	269.3	12	100%
TKN	mg/L	0.167	-	2.44	0.9	0.8	12	100%
TOC	mg/L	3.9	-	22	9.3	6.9	12	100%
TSS	mg/L	4.8	-	44	18.0	12.3	12	100%
Turbidity	NTU	7.2	-	41	17.9	9.5	12	100%
<i>Metals</i>								
As (Diss)	ug/L	< 0.5	-	1.2	--	--	12	50%
As (Total)	ug/L	< 0.5	-	1.5	--	--	12	50%
Cd (Diss)	ug/L	< 0.2	-	0.6	0.4	0.4	12	25%
Cd (Total)	ug/L	< 0.2	-	0.74	0.9	0.2	12	58%
Cr (Diss)	ug/L	< 1.0	-	1.4	--	--	12	17%
Cr (Total)	ug/L	1.1	-	5.3	2.4	1.3	12	100%
Cu (Diss)	ug/L	4.5	-	28	12.5	8.1	12	100%
Cu (Total)	ug/L	8.8	-	32	17.1	8.8	12	100%
Ni (Diss)	ug/L	< 2.0	-	11	4.3	3.5	12	75%
Ni (Total)	ug/L	< 2.0	-	13	5.2	3.8	12	83%
Pb (Diss)	ug/L	< 1.0	-	< 1.0	--	--	12	0%
Pb (Total)	ug/L	< 1.0	-	2.4	1.7	0.5	12	83%
Zn (Diss)	ug/L	14	-	86	42.2	26.3	12	100%
Zn (Total)	ug/L	26	-	100	54.8	25.0	12	100%

Table 3.4.1 Caltrans Site ID 12-240
Water Quality Data Summary

Constituent	Units	Range		Mean	Std Dev	n	% Detected	
<i>Conventional/Nutrients</i>								
DOC	mg/L	4.3	-	24	10.1	6.6	12	100%
EC	umhos/cm	98	-	1000	271.5	258.0	12	100%
Hardness as CaCO ₃	mg/L	22	-	430	92.2	114.2	12	100%
NO ₃ -N	mg/L	0.63	-	4.4	1.5	1.1	12	100%
Ortho-P	mg/L	< 0.02	-	0.43	0.1	0.1	12	92%
P	mg/L	0.09	-	0.98	0.2	0.2	12	100%
pH	pH Units	6.3	-	7.5	6.8	0.3	12	100%
TDS	mg/L	64	-	720	165.3	185.2	12	100%
TKN	mg/L	0.118	-	2.72	1.0	0.8	12	100%
TOC	mg/L	4.2	-	26	11.0	7.5	12	100%
TSS	mg/L	5.5	-	180	42.4	53.2	12	100%
Turbidity	NTU	8.2	-	90	30.3	26.3	12	100%
<i>Metals</i>								
As (Diss)	ug/L	< 0.5	-	1.5	1.0	0.3	12	58%
As (Total)	ug/L	< 0.5	-	2	1.0	0.5	12	50%
Cd (Diss)	ug/L	< 0.2	-	0.45	0.3	0.1	12	50%
Cd (Total)	ug/L	< 0.2	-	0.84	0.4	0.2	12	75%
Cr (Diss)	ug/L	< 1.0	-	2.2	0.9	0.7	12	33%
Cr (Total)	ug/L	< 1.0	-	1.4	3.4	3.5	12	92%
Cu (Diss)	ug/L	4.4	-	30	14.3	8.4	12	100%
Cu (Total)	ug/L	6.6	-	37	18.4	9.8	12	100%
Ni (Diss)	ug/L	2	-	13	4.7	3.4	12	100%
Ni (Total)	ug/L	2.6	-	12	6.1	3.2	12	100%
Pb (Diss)	ug/L	< 1.0	-	< 1.0	--	--	12	0%
Pb (Total)	ug/L	< 1.0	-	1.1	2.2	1.7	12	83%
Zn (Diss)	ug/L	20	-	120	52.6	30.4	12	100%
Zn (Total)	ug/L	26	-	140	70.8	37.3	12	100%

Table 3.4.1 Caltrans Site ID 12-241
Water Quality Data Summary

Constituent	Units	Range		Mean	Std Dev	n	% Detected	
<i>Conventional/Nutrients</i>								
DOC	mg/L	2.9	-	4.7	3.5	0.7	7	100%
EC	umhos/cm	40	-	220	71.4	65.9	7	100%
Hardness as CaCO ₃	mg/L	9.7	-	87	22.4	28.6	7	100%
NO ₃ -N	mg/L	0.62	-	0.7	0.7	0.03	7	100%
Ortho-P	mg/L	< 0.02	-	0.099	0.05	0.03	7	86%
P	mg/L	0.027	-	0.13	0.1	0.04	7	100%
pH	pH Units	6.5	-	7.3	6.8	0.3	7	100%
TDS	mg/L	12	-	130	52.0	39.7	7	100%
TKN	mg/L	0.13	-	0.88	0.4	0.3	7	100%
TOC	mg/L	2.9	-	4.6	3.6	0.7	7	100%
TSS	mg/L	3	-	66	17.7	21.9	7	100%
Turbidity	NTU	5	-	23	11.3	6.3	7	100%
<i>Metals</i>								
As (Diss)	ug/L	< 0.5	-	1.4	--	--	7	14%
As (Total)	ug/L	< 0.5	-	1.4	--	--	7	29%
Cd (Diss)	ug/L	< 0.2	-	0.43	--	--	7	29%
Cd (Total)	ug/L	< 0.2	-	0.53	0.2	0.2	7	43%
Cr (Diss)	ug/L	< 1.0	-	< 1.0	--	--	7	0%
Cr (Total)	ug/L	1.3	-	2.4	1.8	0.3	7	100%
Cu (Diss)	ug/L	3.6	-	9.6	6.2	2.1	7	100%
Cu (Total)	ug/L	5.6	-	13	8.9	2.9	7	100%
Ni (Diss)	ug/L	< 2.0	-	3.7	--	--	7	14%
Ni (Total)	ug/L	< 2.0	-	2.8	2.3	1.5	7	43%
Pb (Diss)	ug/L	< 1.0	-	3.6	--	--	8	13%
Pb (Total)	ug/L	< 1.0	-	1.2	1.6	1.0	7	71%
Zn (Diss)	ug/L	17	-	120	34.6	37.9	7	100%
Zn (Total)	ug/L	18	-	47	31.1	9.9	7	100%

Table 3.4.1 Caltrans Site ID 12-242
Water Quality Data Summary

Constituent	Units	Range		Mean	Std Dev	n	% Detected	
<i>Conventional/Nutrients</i>								
DOC	mg/L	3.6	-	32	11.7	9.5	12	100%
EC	umhos/cm	36	-	800	181.8	216.1	12	100%
Hardness as CaCO ₃	mg/L	7.9	-	330	60.5	93.7	12	100%
NO ₃ -N	mg/L	0.69	-	5.5	1.7	1.5	12	100%
Ortho-P	mg/L	0.04	-	0.2	0.1	0.0	12	100%
P	mg/L	0.046	-	0.24	0.2	0.1	12	100%
pH	pH Units	6.2	-	7.4	6.8	0.3	12	100%
TDS	mg/L	26	-	560	139.6	152.5	12	100%
TKN	mg/L	0.31	-	2.99	1.1	0.9	12	100%
TOC	mg/L	3.8	-	35	12.3	10.3	12	100%
TSS	mg/L	3.6	-	110	26.1	29.0	12	100%
Turbidity	NTU	8.4	-	29	17.7	6.8	12	100%
<i>Metals</i>								
As (Diss)	ug/L	< 0.5	-	2	1.4	0.3	12	92%
As (Total)	ug/L	< 0.5	-	1.7	1.4	0.2	12	83%
Cd (Diss)	ug/L	< 0.2	-	3.6	0.7	1.1	12	67%
Cd (Total)	ug/L	< 0.2	-	3.9	0.8	1.3	12	92%
Cr (Diss)	ug/L	< 1.0	-	1.5	--	--	12	17%
Cr (Total)	ug/L	< 1.0	-	4.5	2.1	1.0	12	92%
Cu (Diss)	ug/L	3	-	38	16.0	11.8	12	100%
Cu (Total)	ug/L	5.8	-	40	19.3	12.6	12	100%
Ni (Diss)	ug/L	< 2.0	-	18	6.0	5.3	12	92%
Ni (Total)	ug/L	2.8	-	19	7.5	5.0	12	100%
Pb (Diss)	ug/L	< 1.0	-	< 1.0	--	--	12	0%
Pb (Total)	ug/L	1	-	2.7	1.5	0.6	12	100%
Zn (Diss)	ug/L	16	-	110	57.6	34.8	12	100%
Zn (Total)	ug/L	30	-	140	69.0	39.3	12	100%

Table 3.4.1 Caltrans Site ID 12-243
Water Quality Data Summary

Constituent	Units	Range		Mean	Std Dev	n	% Detected	
<i>Conventional/Nutrients</i>								
DOC	mg/L	5.3	-	58	15.0	14.6	12	100%
EC	umhos/cm	63	-	570	192.5	168.0	12	100%
Hardness as CaCO ₃	mg/L	15	-	240	60.8	75.5	12	100%
NO ₃ -N	mg/L	0.94	-	5.8	1.8	1.4	12	100%
Ortho-P	mg/L	< 0.02	-	0.15	0.07	0.04	12	92%
P	mg/L	0.045	-	0.45	0.1	0.1	12	100%
pH	pH Units	6.37	-	7.1	6.8	0.2	12	100%
TDS	mg/L	42	-	360	124.9	91.6	12	100%
TKN	mg/L	< 0.1	-	3	1.3	0.8	12	92%
TOC	mg/L	5.6	-	63	15.9	15.9	12	100%
TSS	mg/L	6	-	110	28.4	31.4	12	100%
Turbidity	NTU	7.4	-	73	20.3	18.4	12	100%
<i>Metals</i>								
As (Diss)	ug/L	< 0.5	-	1.8	1.4	0.3	12	92%
As (Total)	ug/L	< 0.5	-	2.3	1.4	0.5	12	83%
Cd (Diss)	ug/L	< 0.2	-	3.2	0.8	1.2	12	75%
Cd (Total)	ug/L	< 0.2	-	3.8	1.1	1.3	12	92%
Cr (Diss)	ug/L	< 1.0	-	1.4	--	--	12	17%
Cr (Total)	ug/L	< 1.0	-	11	2.7	3.3	12	83%
Cu (Diss)	ug/L	5.2	-	35	16.2	9.2	12	100%
Cu (Total)	ug/L	5.7	-	53	21.2	14.0	12	100%
Ni (Diss)	ug/L	2.7	-	23	7.5	6.7	12	100%
Ni (Total)	ug/L	3.1	-	26	8.8	7.2	12	100%
Pb (Diss)	ug/L	< 1.0	-	1.6	--	--	12	8.3%
Pb (Total)	ug/L	< 1.0	-	8.5	1.8	2.8	12	75%
Zn (Diss)	ug/L	30	-	160	81.7	40.6	12	100%
Zn (Total)	ug/L	37	-	390	98.2	95.7	12	100%

Table 3.4.1 Caltrans Site ID 12-244
Water Quality Data Summary

Constituent	Units	Range		Mean	Std Dev	n	% Detected	
<i>Conventional/Nutrients</i>								
DOC	mg/L	3.1	-	4.3	3.8	0.4	8	100%
EC	umhos/cm	27	-	330	106.6	118.2	8	100%
Hardness as CaCO ₃	mg/L	4.7	-	130	34.6	47.4	8	100%
NO ₃ -N	mg/L	0.56	-	0.96	0.8	0.1	8	100%
Ortho-P	mg/L	0.03	-	0.12	0.1	0.0	8	100%
P	mg/L	< 0.03	-	0.31	0.1	0.1	8	88%
pH	pH Units	6.3	-	7.2	6.8	0.3	8	100%
TDS	mg/L	15	-	300	104.5	113.4	8	100%
TKN	mg/L	0.16	-	1.4	0.6	0.4	8	100%
TOC	mg/L	3.1	-	5	4.1	0.7	8	100%
TSS	mg/L	3.1	-	150	33.2	48.3	8	100%
Turbidity	NTU	4.7	-	39	19.2	10.5	8	100%
<i>Metals</i>								
As (Diss)	ug/L	1.1	-	1.9	1.5	0.3	8	100%
As (Total)	ug/L	1.3	-	2	1.6	0.2	8	100%
Cd (Diss)	ug/L	< 0.2	-	3.6	0.8	1.4	8	50%
Cd (Total)	ug/L	0.25	-	4.2	1.1	1.6	8	100%
Cr (Diss)	ug/L	< 1.0	-	< 1.0	--	--	8	0%
Cr (Total)	ug/L	< 1.0	-	8.6	2.4	3.3	8	75%
Cu (Diss)	ug/L	3.2	-	11	7.0	2.7	8	100%
Cu (Total)	ug/L	4.3	-	12	9.2	3.2	8	100%
Ni (Diss)	ug/L	< 2.0	-	19	4.6	7.4	8	63%
Ni (Total)	ug/L	2.2	-	20	7.1	7.1	8	100%
Pb (Diss)	ug/L	< 1.0	-	< 1.0	--	--	8	0%
Pb (Total)	ug/L	< 1.0	-	2.9	1.5	0.8	8	75%
Zn (Diss)	ug/L	16	-	29	23.0	5.3	8	100%
Zn (Total)	ug/L	19	-	54	36.9	11.1	8	100%

Table 3.4.1 Caltrans Site ID 12-245
Water Quality Data Summary

Constituent	Units	Range		Mean	Std Dev	n	% Detected	
<i>Conventional/Nutrients</i>								
DOC	mg/L	5.6	-	30	12.7	8.8	10	100%
EC	umhos/cm	46	-	190	101.9	42.5	10	100%
Hardness as CaCO ₃	mg/L	12	-	59	25.7	14.3	10	100%
NO ₃ -N	mg/L	0.56	-	5.7	1.9	1.5	10	100%
Ortho-P	mg/L	< 0.02	-	0.38	0.1	0.1	10	90%
P	mg/L	0.05	-	0.32	0.1	0.1	10	100%
pH	pH Units	6.3	-	7.2	6.8	0.3	10	100%
TDS	mg/L	38	-	190	82.6	45.7	10	100%
TKN	mg/L	0.33	-	2.99	1.1	0.8	10	100%
TOC	mg/L	6.2	-	33	13.2	9.4	10	100%
TSS	mg/L	2.2	-	59	15.2	17.0	10	100%
Turbidity	NTU	3.6	-	36	13.7	11.0	10	100%
<i>Metals</i>								
As (Diss)	ug/L	1.5	-	4.1	2.8	0.7	10	100%
As (Total)	ug/L	1.5	-	4.1	2.7	0.7	10	100%
Cd (Diss)	ug/L	< 0.2	-	0.33	--	--	10	20%
Cd (Total)	ug/L	< 0.2	-	0.45	0.2	0.1	10	40%
Cr (Diss)	ug/L	< 1.0	-	1.2	--	--	10	10%
Cr (Total)	ug/L	< 1.0	-	9.6	2.5	3.2	10	70%
Cu (Diss)	ug/L	5.1	-	55	19.9	14.9	10	100%
Cu (Total)	ug/L	5.5	-	58	23.1	16.1	10	100%
Ni (Diss)	ug/L	< 2.0	-	8.2	3.7	2.3	10	90%
Ni (Total)	ug/L	2.5	-	9	4.8	2.3	10	100%
Pb (Diss)	ug/L	< 1.0	-	< 1.0	--	--	10	0%
Pb (Total)	ug/L	< 1.0	-	2.2	0.9	0.7	10	40%
Zn (Diss)	ug/L	20	-	240	85.2	71.6	10	100%
Zn (Total)	ug/L	18	-	250	95.7	73.8	10	100%

Table 3.4.1 Caltrans Site ID 12-246
Water Quality Data Summary

Constituent	Units	Range		Mean	Std Dev	n	% Detected	
<i>Conventional/Nutrients</i>								
DOC	mg/L	5.2	-	30	13.8	10.0	10	100%
EC	umhos/cm	73	-	300	136.3	74.7	10	100%
Hardness as CaCO ₃	mg/L	15	-	91	35.5	23.7	10	100%
NO ₃ -N	mg/L	0.64	-	5	1.9	1.4	10	100%
Ortho-P	mg/L	0.055	-	0.29	0.1	0.1	10	100%
P	mg/L	0.06	-	0.28	0.1	0.1	10	100%
pH	pH Units	6.33	-	7.7	6.9	0.4	10	100%
TDS	mg/L	45	-	190	102.8	51.6	10	100%
TKN	mg/L	0.31	-	3.03	1.2	0.9	10	100%
TOC	mg/L	5.4	-	36	14.5	11.1	10	100%
TSS	mg/L	3.9	-	32	11.3	8.9	10	100%
Turbidity	NTU	4	-	29	11.7	8.6	10	100%
<i>Metals</i>								
As (Diss)	ug/L	1.8	-	4.7	3.1	0.7	10	100%
As (Total)	ug/L	1.4	-	4	2.8	0.7	10	100%
Cd (Diss)	ug/L	< 0.2	-	0.37	--	--	10	10%
Cd (Total)	ug/L	< 0.2	-	0.47	--	--	10	30%
Cr (Diss)	ug/L	< 1.0	-	4.2	0.9	1.7	10	40%
Cr (Total)	ug/L	< 1.0	-	5.1	2.1	1.4	10	80%
Cu (Diss)	ug/L	5.9	-	56	20.6	16.3	10	100%
Cu (Total)	ug/L	6.2	-	53	22.6	16.7	10	100%
Ni (Diss)	ug/L	2.2	-	9.6	4.1	2.5	10	100%
Ni (Total)	ug/L	2.2	-	9.8	4.7	2.8	10	100%
Pb (Diss)	ug/L	< 1.0	-	< 1.0	--	--	10	0%
Pb (Total)	ug/L	< 1.0	-	1.2	--	--	10	18%
Zn (Diss)	ug/L	15	-	190	75.9	58.5	10	100%
Zn (Total)	ug/L	23	-	190	80.8	59.8	10	100%

Table 3.4.1 Caltrans Site ID 12-247
Water Quality Data Summary

Constituent	Units	Range		Mean	Std Dev	n	% Detected	
<i>Conventional/Nutrients</i>								
DOC	mg/L	3.5	-	7.9	6.1	1.4	7	100%
EC	umhos/cm	42	-	150	63.1	38.9	7	100%
Hardness as CaCO ₃	mg/L	9	-	46	16.4	13.2	7	100%
NO ₃ -N	mg/L	0.57	-	1.4	1.0	0.3	7	100%
Ortho-P	mg/L	0.022	-	0.086	0.1	0.0	7	100%
P	mg/L	0.038	-	0.86	0.2	0.3	7	100%
pH	pH Units	6.4	-	7.4	6.9	0.4	7	100%
TDS	mg/L	28	-	210	70.7	62.7	7	100%
TKN	mg/L	0.22	-	0.94	0.6	0.3	7	100%
TOC	mg/L	3.7	-	8.1	6.4	1.5	7	100%
TSS	mg/L	2.6	-	53	26.5	19.8	7	100%
Turbidity	NTU	7	-	53	20.5	16.2	7	100%
<i>Metals</i>								
As (Diss)	ug/L	2.6	-	4.6	3.4	0.7	7	100%
As (Total)	ug/L	2.6	-	4.3	3.4	0.6	7	100%
Cd (Diss)	ug/L	< 0.5	-	<0.5	--	--	7	0%
Cd (Total)	ug/L	< 0.2	-	0.22	--	--	7	14%
Cr (Diss)	ug/L	< 1.0	-	1.8	--	--	7	14%
Cr (Total)	ug/L	1.4	-	4.4	3.0	1.0	7	100%
Cu (Diss)	ug/L	6.7	-	20	11.0	4.6	7	100%
Cu (Total)	ug/L	8.8	-	21	13.8	4.7	7	100%
Ni (Diss)	ug/L	< 2.0	-	2.4	--	--	7	14%
Ni (Total)	ug/L	3.3	-	6	4.3	1.0	7	100%
Pb (Diss)	ug/L	< 1.0	-	< 1.0	--	--	7	0%
Pb (Total)	ug/L	< 1.0	-	1.8	1.3	0.4	7	71%
Zn (Diss)	ug/L	11	-	66	32.4	0.4	7	100%
Zn (Total)	ug/L	24	-	84	45.4	20.8	7	100%

Table 3.4.1 Caltrans Site ID 12-248
Water Quality Data Summary

Constituent	Units	Range		Mean	Std Dev	n	% Detected	
<i>Conventional/Nutrients</i>								
DOC	mg/L	2.7	-	33	15.0	11.2	12	100%
EC	umhos/cm	34	-	200	100.7	56.3	12	100%
Hardness as CaCO ₃	mg/L	4.2	-	58	25.3	17.4	12	100%
NO ₃ -N	mg/L	0.61	-	12	3.6	3.7	12	100%
Ortho-P	mg/L	< 0.02	-	0.21	0.08	0.06	12	92%
P	mg/L	0.02	-	0.27	0.1	0.1	12	100%
pH	pH Units	6.1	-	7.2	6.6	0.3	12	100%
TDS	mg/L	31	-	160	93.6	42.9	12	100%
TKN	mg/L	0.24	-	2.96	1.2	0.9	12	100%
TOC	mg/L	2.4	-	34	15.3	11.6	12	100%
TSS	mg/L	< 1.0	-	13	5.2	4.0	12	91%
Turbidity	NTU	1.4	-	8.6	4.6	1.7	12	100%
<i>Metals</i>								
As (Diss)	ug/L	2.1	-	5	3.2	0.9	12	100%
As (Total)	ug/L	1.7	-	4.5	3.0	0.9	12	100%
Cd (Diss)	ug/L	< 0.2	-	0.36	0.3	0.8	12	25%
Cd (Total)	ug/L	< 0.2	-	0.55	0.2	0.2	12	33%
Cr (Diss)	ug/L	< 1.0	-	2.2	--	--	12	8%
Cr (Total)	ug/L	< 1.0	-	3.4	1.7	1.0	12	67%
Cu (Diss)	ug/L	5.2	-	66	32.6	19.9	12	100%
Cu (Total)	ug/L	6.2	-	82	35.4	22.9	12	100%
Ni (Diss)	ug/L	< 2.0	-	8.2	4.3	2.6	12	67%
Ni (Total)	ug/L	< 2.0	-	11	4.7	3.4	12	75%
Pb (Diss)	ug/L	< 1.0	-	< 1.0	--	--	12	0%
Pb (Total)	ug/L	< 1.0	-	2.2	1.1	0.6	12	33%
Zn (Diss)	ug/L	25	-	240	114.4	77.9	12	100%
Zn (Total)	ug/L	27	-	220	113.0	73.3	12	100%

Table 3.4.1 Caltrans Site ID 12-249
Water Quality Data Summary

Constituent	Units	Range		Mean	Std Dev	n	% Detected	
<i>Conventional/Nutrients</i>								
DOC	mg/L	4.4	-	28	13.3	9.6	12	100%
EC	umhos/cm	58	-	830	208.5	211.2	12	100%
Hardness as CaCO ₃	mg/L	12	-	340	67.8	89.9	12	100%
NO ₃ -N	mg/L	0.86	-	8.9	2.6	2.4	12	100%
Ortho-P	mg/L	< 0.02	-	0.23	0.07	0.06	12	92%
P	mg/L	0.04	-	0.3	0.1	0.1	12	100%
pH	pH Units	6.33	-	7.6	6.9	0.3	12	100%
TDS	mg/L	49	-	560	151.7	137.3	12	100%
TKN	mg/L	0.16	-	2.37	1.0	0.7	12	100%
TOC	mg/L	4.2	-	33	14.2	10.7	12	100%
TSS	mg/L	5.8	-	220	52.2	66.8	12	100%
Turbidity	NTU	7.3	-	160	44.5	55.0	12	100%
<i>Metals</i>								
As (Diss)	ug/L	1.7	-	3.3	2.6	0.5	12	100%
As (Total)	ug/L	1.6	-	4	2.6	0.8	12	100%
Cd (Diss)	ug/L	< 0.2	-	0.26	--	--	12	25%
Cd (Total)	ug/L	< 0.2	-	0.59	0.3	0.2	12	58%
Cr (Diss)	ug/L	< 1.0	-	2.1	--	--	12	17%
Cr (Total)	ug/L	1.6	-	17	5.7	5.3	12	100%
Cu (Diss)	ug/L	5.1	-	47	19.6	13.1	12	100%
Cu (Total)	ug/L	7.9	-	46	23.2	12.7	12	100%
Ni (Diss)	ug/L	< 2.0	-	8	3.8	2.7	12	75%
Ni (Total)	ug/L	2.4	-	18	8.0	4.8	12	100%
Pb (Diss)	ug/L	< 1.0	-	< 1.0	--	--	12	0%
Pb (Total)	ug/L	< 1.0	-	2.5	1.3	0.8	12	42%
Zn (Diss)	ug/L	11	-	290	92.8	85.8	12	100%
Zn (Total)	ug/L	33	-	300	111.8	81.9	12	100%

Table 3.4.1 Caltrans Site ID 12-250
Water Quality Data Summary

Constituent	Units	Range		Mean	Std Dev	n	% Detected	
<i>Conventional/Nutrients</i>								
DOC	mg/L	2.1	-	4.5	2.9	1.0	6	100%
EC	umhos/cm	14	-	140	62.8	50.7	6	100%
Hardness as CaCO ₃	mg/L	<2	-	40	17.7	17.1	6	83%
NO ₃ -N	mg/L	0.11	-	0.76	0.6	0.2	6	100%
Ortho-P	mg/L	<0.02	-	0.6	0.44	0.15	6	100%
P	mg/L	0.03	-	0.06	0.05	0.01	6	100%
pH	pH Units	6.6	-	7.5	7.1	0.3	6	100%
TDS	mg/L	20	-	140	66.0	54.5	6	100%
TKN	mg/L	0.15	-	0.74	0.5	0.2	6	100%
TOC	mg/L	2.3	-	4.2	3.0	0.8	6	100%
TSS	mg/L	2.2	-	15	8.6	4.4	6	100%
Turbidity	NTU	<0.05	-	13	7.4	4.9	6	83%
<i>Metals</i>								
As (Diss)	ug/L	2.4	-	4.2	3.2	0.8	6	100%
As (Total)	ug/L	2.3	-	4	3.0	0.7	6	100%
Cd (Diss)	ug/L	<0.2	-	0.34	--	--	6	17%
Cd (Total)	ug/L	<0.2	-	<0.2	--	--	6	0%
Cr (Diss)	ug/L	<1.0	-	<1.0	--	--	6	0%
Cr (Total)	ug/L	<1.0	-	2.6	--	--	6	33%
Cu (Diss)	ug/L	4.2	-	13	8.1	3.8	6	100%
Cu (Total)	ug/L	5	-	16	8.8	4.9	6	100%
Ni (Diss)	ug/L	<2.0	-	<2.0	--	--	6	0%
Ni (Total)	ug/L	<2.0	-	<2.0	--	--	6	0%
Pb (Diss)	ug/L	<1.0	-	<1.0	--	--	6	0%
Pb (Total)	ug/L	<1.0	-	<1.0	--	--	6	0%
Zn (Diss)	ug/L	14	-	43	24.3	11.1	6	100%
Zn (Total)	ug/L	16	-	46	27.5	12.4	6	100%

Table 3.4.1 Caltrans Site ID 12-251
Water Quality Data Summary

Constituent	Units	Range		Mean	Std Dev	n	% Detected	
<i>Conventional/Nutrients</i>								
DOC	mg/L	4.7	-	28	12.5	7.9	8	100%
EC	umhos/cm	120	-	580	303.8	145.1	8	100%
Hardness as CaCO ₃	mg/L	34	-	180	93.8	50.8	8	100%
NO ₃ -N	mg/L	0.76	-	6.2	2.6	1.7	8	100%
Ortho-P	mg/L	0.035	-	0.36	0.1	0.1	8	100%
P	mg/L	< 0.03	-	0.59	0.2	0.2	8	88%
pH	pH Units	7.4	-	8.4	7.8	0.3	8	100%
TDS	mg/L	76	-	400	206.8	101.1	8	100%
TKN	mg/L	0.37	-	2.85	1.2	0.8	8	100%
TOC	mg/L	4.2	-	28	12.7	8.0	8	100%
TSS	mg/L	44	-	540	260.0	174.2	8	100%
Turbidity	NTU	34	-	830	219.1	258.4	8	100%
<i>Metals</i>								
As (Diss)	ug/L	1.6	-	3.7	2.6	0.7	8	100%
As (Total)	ug/L	1.5	-	3.9	2.9	0.7	8	100%
Cd (Diss)	ug/L	< 0.2	-	0.33	--	--	8	13%
Cd (Total)	ug/L	< 0.2	-	1.3	0.4	1.6	8	88%
Cr (Diss)	ug/L	< 1.0	-	4.8	1.6	1.7	8	75%
Cr (Total)	ug/L	3	-	30	12.1	8.9	8	100%
Cu (Diss)	ug/L	3.7	-	45	13.7	13.4	8	100%
Cu (Total)	ug/L	9.2	-	50	23.3	11.9	8	100%
Ni (Diss)	ug/L	< 2.0	-	7.9	3.3	2.4	8	88%
Ni (Total)	ug/L	4.6	-	28	14.9	8.6	8	100%
Pb (Diss)	ug/L	< 1.0	-	< 1.0	--	--	8	0%
Pb (Total)	ug/L	1.6	-	4.1	2.4	0.9	8	100%
Zn (Diss)	ug/L	< 2.0	-	71	23.7	26.0	8	75%
Zn (Total)	ug/L	27	-	77	46.4	18.3	8	100%

Table 3.4.1 Caltrans Site ID 12-252
Water Quality Data Summary

Constituent	Units	Range		Mean	Std Dev	n	% Detected	
<i>Conventional/Nutrients</i>								
DOC	mg/L	6.4	-	33	14.0	9.9	8	100%
EC	umhos/cm	120	-	460	263.8	113.9	8	100%
Hardness as CaCO ₃	mg/L	31	-	130	78.3	34.4	8	100%
NO ₃ -N	mg/L	1.2	-	2.4	1.8	0.4	8	100%
Ortho-P	mg/L	< 0.02	-	0.13	0.06	0.04	8	75%
P	mg/L	0.07	-	0.27	0.2	0.1	8	100%
pH	pH Units	6.7	-	7.6	7.2	0.4	8	100%
TDS	mg/L	66	-	250	167.0	68.2	8	100%
TKN	mg/L	0.241	-	2.91	1.3	0.9	8	100%
TOC	mg/L	7.3	-	34	15.0	10.0	8	100%
TSS	mg/L	8.6	-	370	106.0	123.4	8	100%
Turbidity	NTU	9.1	-	270	71.6	88.6	8	100%
<i>Metals</i>								
As (Diss)	ug/L	1.6	-	3.8	2.5	0.7	8	100%
As (Total)	ug/L	1.2	-	4.4	2.5	1.0	8	100%
Cd (Diss)	ug/L	< 0.2	-	0.29	--	--	8	25%
Cd (Total)	ug/L	< 0.2	-	0.37	0.3	0.5	8	75%
Cr (Diss)	ug/L	< 1.0	-	4.2	1.5	1.5	8	63%
Cr (Total)	ug/L	2.7	-	19	8.2	6.7	8	100%
Cu (Diss)	ug/L	3.4	-	54	17.1	18.1	8	100%
Cu (Total)	ug/L	10	-	53	24.3	15.0	8	100%
Ni (Diss)	ug/L	< 2.0	-	8.7	4.1	2.9	8	88%
Ni (Total)	ug/L	2.8	-	22	10.9	6.8	8	100%
Pb (Diss)	ug/L	< 1.0	-	8.4	--	--	8	13%
Pb (Total)	ug/L	< 1.0	-	3.4	1.8	1.0	8	88%
Zn (Diss)	ug/L	< 2.0	-	110	34.3	44.2	8	88%
Zn (Total)	ug/L	19	-	120	60.6	35.1	8	100%

Table 3.4.1 Caltrans Site ID 12-253
Water Quality Data Summary

Constituent	Units	Range		Mean	Std Dev	n	% Detected	
<i>Conventional/Nutrients</i>								
DOC	mg/L	4.6	-	6.8	5.7	0.9	6	100%
EC	umhos/cm	110	-	200	153.3	37.8	6	100%
Hardness as CaCO ₃	mg/L	27	-	57	42.3	13.2	6	100%
NO ₃ -N	mg/L	0.64	-	1.8	1.2	0.5	6	100%
Ortho-P	mg/L	< 0.02	-	0.08	0.5	0.2	6	84%
P	mg/L	< 0.03	-	0.5	0.2	0.2	6	83%
pH	pH Units	7.2	-	8.1	7.8	0.3	6	100%
TDS	mg/L	73	-	220	129.2	61.7	6	100%
TKN	mg/L	0.18	-	0.77	0.6	0.2	6	100%
TOC	mg/L	4.7	-	9	6.7	1.6	6	100%
TSS	mg/L	33	-	520	218.8	162.7	6	100%
Turbidity	NTU	40	-	310	170.0	87.6	6	100%
<i>Metals</i>								
As (Diss)	ug/L	2.1	-	3.6	2.7	0.6	6	100%
As (Total)	ug/L	2	-	6.8	3.5	1.7	6	100%
Cd (Diss)	ug/L	< 0.2	-	< 0.2	--	--	6	0%
Cd (Total)	ug/L	< 0.2	-	86	0.3	0.4	6	67%
Cr (Diss)	ug/L	< 1.0	-	1.5	1.2	0.3	6	66%
Cr (Total)	ug/L	4.7	-	80	24.5	29.2	6	67%
Cu (Diss)	ug/L	4.1	-	13	7.8	3.6	6	100%
Cu (Total)	ug/L	9.8	-	58	21.3	18.4	6	100%
Ni (Diss)	ug/L	< 2.0	-	2.9	--	--	6	33%
Ni (Total)	ug/L	6.9	-	63	20.7	21.1	6	100%
Pb (Diss)	ug/L	< 1.0	-	1.9	--	--	6	17%
Pb (Total)	ug/L	1.1	-	7.3	3.1	2.2	6	100%
Zn (Diss)	ug/L	< 2.0	-	52	14.8	22.9	6	67%
Zn (Total)	ug/L	18	-	110	45.0	33.3	6	100%

Table 3.4.1 Caltrans Site ID 12-254
Water Quality Data Summary

Constituent	Units	Range		Mean	Std Dev	n	% Detected	
<i>Conventional/Nutrients</i>								
DOC	mg/L	3.3	-	11	6.0	2.4	9	100%
EC	umhos/cm	27	-	180	65.4	47.1	9	100%
Hardness as CaCO ₃	mg/L	2.9	-	39	14.2	11.9	9	100%
NO ₃ -N	mg/L	0.28	-	1.1	0.8	0.25	9	100%
Ortho-P	mg/L	< 0.02	-	0.05	0.0	0.13	9	78%
P	mg/L	0.03	-	0.11	0.1	0.0	9	100%
pH	pH Units	6.37	-	7	6.8	0.2	9	100%
TDS	mg/L	18	-	96	53.7	28.3	9	100%
TKN	mg/L	0.21	-	0.91	0.5	0.3	9	100%
TOC	mg/L	3.4	-	12	6.3	2.6	9	100%
TSS	mg/L	9.6	-	39	20.7	11.2	9	100%
Turbidity	NTU	7.4	-	66	21.3	17.4	9	100%
<i>Metals</i>								
As (Diss)	ug/L	< 0.5	-	1.2	--	--	9	11%
As (Total)	ug/L	< 0.5	-	1.2	--	--	9	22%
Cd (Diss)	ug/L	< 0.2	-	< 0.2	--	--	9	0%
Cd (Total)	ug/L	< 0.2	-	0.46	--	--	9	22%
Cr (Diss)	ug/L	< 1.0	-	3.4	--	--	9	22%
Cr (Total)	ug/L	< 1.0	-	10	3.0	3.4	9	89%
Cu (Diss)	ug/L	7	-	26	13.7	6.0	9	100%
Cu (Total)	ug/L	11	-	39	20.7	9.3	9	100%
Ni (Diss)	ug/L	< 2.0	-	5	1.8	1.7	9	33%
Ni (Total)	ug/L	< 2.0	-	10	2.9	3.8	9	56%
Pb (Diss)	ug/L	< 1.0	-	< 1.0	--	--	9	0%
Pb (Total)	ug/L	1.3	-	5.6	3.0	1.4	9	100%
Zn (Diss)	ug/L	45	-	190	95.2	42.1	9	100%
Zn (Total)	ug/L	65	-	260	133.7	59.1	9	100%

Table 3.4.1 Caltrans Site ID 12-255
Water Quality Data Summary

Constituent	Units	Range		Mean	Std Dev	n	% Detected	
<i>Conventional/Nutrients</i>								
DOC	mg/L	3.2	-	10	5.5	2.1	9	100%
EC	umhos/cm	44	-	160	97.3	34.3	9	100%
Hardness as CaCO ₃	mg/L	9.2	-	37	23.1	8.9	9	100%
NO ₃ -N	mg/L	0.64	-	1.3	0.8	0.2	9	100%
Ortho-P	mg/L	< 0.02	-	0.05	0.03	0.15	9	67%
P	mg/L	0.02	-	0.14	0.1	0.04	9	100%
pH	pH Units	6.3	-	7.4	6.8	0.3	9	100%
TDS	mg/L	40	-	170	73.1	38.9	9	100%
TKN	mg/L	0.125	-	0.89	0.5	0.3	9	100%
TOC	mg/L	3.3	-	10	5.9	2.1	9	100%
TSS	mg/L	8.8	-	71	31.6	23.7	9	100%
Turbidity	NTU	7	-	45	21.7	12.2	9	100%
<i>Metals</i>								
As (Diss)	ug/L	< 0.5	-	< 0.5	--	--	9	0%
As (Total)	ug/L	< 0.5	-	1	--	--	9	11%
Cd (Diss)	ug/L	< 0.2	-	< 0.2	--	--	9	0%
Cd (Total)	ug/L	< 0.2	-	0.22	--	--	9	22%
Cr (Diss)	ug/L	< 1.0	-	1.6	1.2	0.3	9	56%
Cr (Total)	ug/L	1.3	-	5.1	2.9	1.2	9	100%
Cu (Diss)	ug/L	4.7	-	23	11.6	5.4	9	100%
Cu (Total)	ug/L	7.6	-	31	16.7	7.5	9	100%
Ni (Diss)	ug/L	< 2.0	-	2.8	2.0	0.5	9	44%
Ni (Total)	ug/L	2.1	-	3.5	2.7	0.6	9	100%
Pb (Diss)	ug/L	< 1.0	-	< 1.0	--	--	9	0%
Pb (Total)	ug/L	1.1	-	5.2	2.4	1.3	9	100%
Zn (Diss)	ug/L	44	-	140	84.1	34.2	9	100%
Zn (Total)	ug/L	68	-	190	109.8	41.4	9	100%

Table 3.4.1 Caltrans Site ID 12-256
Water Quality Data Summary

Constituent	Units	Range		Mean	Std Dev	n	% Detected	
<i>Conventional/Nutrients</i>								
DOC	mg/L	1.9	-	2.3	2.0	0.2	3	100%
EC	umhos/cm	24	-	70	40.7	25.5	3	100%
Hardness as CaCO ₃	mg/L	3.8	-	17	8.9	7.1	3	100%
NO ₃ -N	mg/L	0.55	-	1.9	1.1	0.7	3	100%
Ortho-P	mg/L	< 0.02	-	0.05	--	--	3	67%
P	mg/L	0.05	-	0.18	0.1	0.1	3	100%
pH	pH Units	6.4	-	7.4	6.9	0.5	3	100%
TDS	mg/L	< 0.5	-	120	--	--	3	67%
TKN	mg/L	< 0.1	-	0.17	--	--	3	67%
TOC	mg/L	2	-	3.5	2.6	0.8	3	100%
TSS	mg/L	41	-	72	55.0	15.7	3	100%
Turbidity	NTU	34	-	65	47.7	15.8	3	100%
<i>Metals</i>								
As (Diss)	ug/L	< 0.5	-	< 0.5	--	--	3	0%
As (Total)	ug/L	< 0.5	-	1.9	--	--	3	33%
Cd (Diss)	ug/L	< 0.5	-	< 0.5	--	--	3	0%
Cd (Total)	ug/L	< 0.2	-	0.2	--	--	3	33%
Cr (Diss)	ug/L	< 0.5	-	< 0.5	--	--	3	0%
Cr (Total)	ug/L	< 1.0	-	< 1.0	--	--	3	0%
Cu (Diss)	ug/L	3.8	-	32	15.2	14.9	3	100%
Cu (Total)	ug/L	3.3	-	13	8.6	4.9	3	100%
Ni (Diss)	ug/L	< 2.0	-	< 2.0	--	--	3	0%
Ni (Total)	ug/L	< 2.0	-	5.7	--	--	3	67%
Pb (Diss)	ug/L	< 1.0	-	3.6	--	--	3	33%
Pb (Total)	ug/L	< 1.0	-	4	--	--	3	67%
Zn (Diss)	ug/L	22	-	120	57.7	54.2	3	100%
Zn (Total)	ug/L	22	-	130	84.0	55.7	3	100%

Table 3.4.1 Caltrans Site ID 12-257
Water Quality Data Summary

Constituent	Units	Range		Mean	Std Dev	n	% Detected	
<i>Conventional/Nutrients</i>								
DOC	mg/L	5.3	-	62	13.9	18.2	9	100%
EC	umhos/cm	79	-	560	183.7	160.8	9	100%
Hardness as CaCO ₃	mg/L	15	-	220	60.9	64.8	9	100%
NO ₃ -N	mg/L	0.41	-	8.7	2.2	2.6	9	100%
Ortho-P	mg/L	< 0.02	-	0.24	0.1	0.1	9	89%
P	mg/L	0.1	-	0.57	0.3	0.2	9	100%
pH	pH Units	6.6	-	7.3	7.1	0.3	9	100%
TDS	mg/L	52	-	420	143.0	112.4	9	100%
TKN	mg/L	0.23	-	5.03	1.3	1.5	9	100%
TOC	mg/L	5.2	-	60	14.3	17.5	9	100%
TSS	mg/L	26	-	660	216.3	199.3	9	100%
Turbidity	NTU	30	-	230	132.1	87.4	9	100%
<i>Metals</i>								
As (Diss)	ug/L	1	-	2.2	1.6	0.4	9	100%
As (Total)	ug/L	1.3	-	4.8	2.8	1.1	9	100%
Cd (Diss)	ug/L	< 0.2	-	< 0.2	--	--	9	0%
Cd (Total)	ug/L	< 0.2	-	0.65	0.4	0.1	9	78%
Cr (Diss)	ug/L	< 1.0	-	3.3	1.2	1.1	9	44%
Cr (Total)	ug/L	4.2	-	25	11.0	7.4	9	100%
Cu (Diss)	ug/L	5.1	-	53	14.5	14.9	9	100%
Cu (Total)	ug/L	14	-	65	25.2	15.9	9	100%
Ni (Diss)	ug/L	< 2.0	-	14	3.4	5.4	9	78%
Ni (Total)	ug/L	4	-	19	10.4	5.2	9	100%
Pb (Diss)	ug/L	< 1.0	-	< 1.0	--	--	9	0%
Pb (Total)	ug/L	1.9	-	9.4	5.3	2.7	9	100%
Zn (Diss)	ug/L	6	-	62	27.0	17.3	9	100%
Zn (Total)	ug/L	49	-	130	85.9	24.3	9	100%

Table 3.4.1 Caltrans Site ID 12-258
Water Quality Data Summary

Constituent	Units	Range		Mean	Std Dev	n	% Detected	
<i>Conventional/Nutrients</i>								
DOC	mg/L	5.2	-	34	10.4	9.0	9	100%
EC	umhos/cm	120	-	1400	437.8	408.4	9	100%
Hardness as CaCO ₃	mg/L	29	-	630	160.2	190.0	9	100%
NO ₃ -N	mg/L	0.57	-	5	1.7	1.3	9	100%
Ortho-P	mg/L	0.038	-	0.12	0.1	0.0	9	100%
P	mg/L	0.17	-	3	0.8	0.9	9	100%
pH	pH Units	6.7	-	8	7.5	0.4	9	100%
TDS	mg/L	100	-	1000	294.4	288.0	9	100%
TKN	mg/L	0.21	-	2.45	1.0	0.7	9	100%
TOC	mg/L	5.3	-	33	11.7	8.7	9	100%
TSS	mg/L	7.4	-	890	376.0	313.9	9	100%
Turbidity	NTU	48	-	920	309.8	254.6	9	100%
<i>Metals</i>								
As (Diss)	ug/L	1.6	-	2.5	2.0	0.3	9	100%
As (Total)	ug/L	1.4	-	15	5.5	4.6	9	100%
Cd (Diss)	ug/L	< 0.2	-	0.22	--	--	9	11%
Cd (Total)	ug/L	< 0.2	-	1.9	0.8	0.6	9	89%
Cr (Diss)	ug/L	< 1.0	-	3.2	1.8	0.9	9	78%
Cr (Total)	ug/L	1.9	-	80	25.1	26.6	9	100%
Cu (Diss)	ug/L	4.7	-	16	8.6	3.3	9	100%
Cu (Total)	ug/L	10	-	56	25.3	18.0	9	100%
Ni (Diss)	ug/L	< 2.0	-	9.7	3.4	3.0	9	89%
Ni (Total)	ug/L	2.9	-	61	20.3	19.6	9	100%
Pb (Diss)	ug/L	< 1.0	-	2.5	--	--	9	11%
Pb (Total)	ug/L	1.7	-	26	8.9	8.0	9	100%
Zn (Diss)	ug/L	7.1	-	59	28.1	18.6	9	100%
Zn (Total)	ug/L	37	-	540	158.3	171.7	9	100%

Table 3.4.1 Caltrans Site ID 12-259
Water Quality Data Summary

Constituent	Units	Range		Mean	Std Dev	n	% Detected	
<i>Conventional/Nutrients</i>								
DOC	mg/L	4	-	6	5.0	--	2	100%
EC	umhos/cm	25	-	46	35.5	--	2	100%
Hardness as CaCo ₃	mg/L	9	-	23	16.0	--	2	100%
NO ₃ -N	mg/L	0.27	-	3.1	1.7	--	2	100%
Ortho-P	mg/L	0.12	-	0.14	0.1	--	2	100%
P	mg/L	0.035	-	0.52	0.3	--	2	100%
TDS	mg/L	98	-	130	114.0	--	2	100%
TKN	mg/L	0.17	-	0.42	0.3	--	2	100%
TOC	mg/L	4	-	7	5.5	--	2	100%
TSS	mg/L	21	-	87	54.0	--	2	100%
Turbidity	NTU	12	-	38	25.0	--	2	100%
<i>Metals</i>								
As (Diss)	ug/L	1.7	-	1.8	1.8	--	2	100%
As (Total)	ug/L	1.9	-	2.5	2.2	--	2	100%
Cd (Diss)	ug/L	< 0.5	-	0.42	0.4	--	2	50%
Cd (Total)	ug/L	0.51	-	0.51	0.5	--	2	100%
Cr (Diss)	ug/L	< 1.0	-	1.6	--	--	2	50%
Cr (Total)	ug/L	4.6	-	7.3	6.0	--	2	100%
Cu (Diss)	ug/L	11	-	12	11.5	--	2	100%
Cu (Total)	ug/L	11	-	11	11.0	--	2	100%
Ni (Diss)	ug/L	< 2.0	-	0.35	--	--	2	50%
Ni (Total)	ug/L	7.3	-	8.4	7.9	--	2	100%
Pb (Diss)	ug/L	< 1.0	-	3	--	--	2	50%
Pb (Total)	ug/L	4.4	-	4.7	4.6	--	2	100%
Zn (Diss)	ug/L	< 2.0	-	37	--	--	2	50%
Zn (Total)	ug/L	30	-	39	34.5	--	2	100%

SECTION 4 Gross Solids

4.1 District 7 Phase III/Phase IV Litter Pilot Studies

Gross solids removal devices (GSRDs) are non-proprietary devices that capture gross solids. The term “gross solids” includes litter, vegetation, and other relatively large solids. Caltrans defines litter in storm water runoff as “manufactured items made from paper, plastic, cardboard, glass, metal, etc. that can be retained by a 5 mm (0.25 in nominal) mesh.” Caltrans developed GSRDs to comply with the trash TMDLs developed for Southern California.

Phase III of the District 7 Litter Pilot Studies was initiated to test modified GSRD devices that were derived from successful designs developed in the earlier phases of the program. Two existing Phase I GSRDs were decommissioned and replaced with Phase III devices. A third device was constructed at a new location. All three devices currently being monitored were built by Caltrans District 7.

Phase IV of the project was initiated to study a modification of a non-proprietary GSRD design, the linear radial GSRD.

The SR-91 at Ardmore site is a Phase III reverse sloping screen GSRD located in the City of Bellflower just off the intersection of Ardmore Avenue and Beach Street. The I-210 at Christy site is a Phase III direct flow inclined screen GSRD located in the City of Lake View Terrace just off Christy Avenue. The US-101 at Gaviota site is a Phase IV linear radial GSRD located in the City of Encino near the intersection of Magnolia Boulevard and Gaviota Avenue.

Table 4.1.0 District 7 Phase III/Phase IV Litter Pilot Studies Monitoring Sites

Site ID	Outfall ID	Caltrans District	Regional Board	County	Catchment Area (hectares)
7-301	US 101 at Gaviota	7	Los Angeles	Los Angeles	0.800
7-302	SR-91 at Ardmore	7	Los Angeles	Los Angeles	0.810
7-303	I-210 at Christy	7	Los Angeles	Los Angeles	1.010

**Table 4.1.1 Caltrans Site ID 7-301
Gross Solids Data Summary**

Site ID	Outfall ID	Mobilization ID	Sample Date	Wet/Dry	Constituent	Reported Value	Units
7-301	US 101 at Gaviota	2004-01L	10/25/2004	W	Total Gross Solids	54120	g
7-301	US 101 at Gaviota	2004-01L	10/25/2004	W	Total Gross Solids	61000	mL
7-301	US 101 at Gaviota	2004-02L	11/4/2004	W	Total Gross Solids	25000	mL
7-301	US 101 at Gaviota	2004-02L	11/4/2004	W	Total Gross Solids	15400	g
7-301	US 101 at Gaviota	2004-03L	2/25/2005	W	Total Gross Solids	145000	mL
7-301	US 101 at Gaviota	2004-03L	2/25/2005	W	Total Gross Solids	267880	g
7-301	US 101 at Gaviota	2004-04L	5/23/2005	D	Total Gross Solids	310000	mL
7-301	US 101 at Gaviota	2004-04L	5/23/2005	D	Total Gross Solids	47000	g
7-301	US 101 at Gaviota	2004-04L	5/23/2005	W	Total Gross Solids	169000	mL
7-301	US 101 at Gaviota	2004-04L	5/23/2005	W	Total Gross Solids	144000	g

**Table 4.1.2 Caltrans Site ID 7-302
Gross Solids Data Summary**

Site ID	Outfall ID	Mobilization ID	Sample Date	Wet/Dry	Constituent	Reported Value	Units
7-302	SR-91 at Ardmore	2004-01L	5/24/2005	D	Total Gross Solids	205000	mL
7-302	SR-91 at Ardmore	2004-01L	5/24/2005	D	Total Gross Solids	125400	g
7-302	SR-91 at Ardmore	2004-01L	5/24/2005	D	Total Gross Solids	20000	mL
7-302	SR-91 at Ardmore	2004-01L	5/24/2005	D	Total Gross Solids	9400	g

**Table 4.1.3 Caltrans Site ID 7-303
Gross Solids Data Summary**

Site ID	Outfall ID	Mobilization ID	Sample Date	Wet/Dry	Constituent	Reported Value	Units
7-303	I-210 at Christy	2004-01L	5/23/2005	D	Total Gross Solids	191700	g
7-303	I-210 at Christy	2004-01L	5/23/2005	D	Total Gross Solids	382000	mL
7-303	I-210 at Christy	2004-01L	5/23/2005	D	Total Gross Solids	162700	g
7-303	I-210 at Christy	2004-01L	5/23/2005	D	Total Gross Solids	187000	mL

4.2 SR-73 Treatment Technology Pilot Studies

All four litter removal devices being evaluated as part of the SR-73 Treatment Technology Pilot Studies project are non-proprietary GSRD devices.

Basin 630L is located along SR-73 at KP 22.9 (PM 14.4) within the City of Aliso Viejo, CA, adjacent to SR-73 at Alicia Parkway. The site does not have a flow equalization basin. The site receives storm water runoff from approximately 11 acres of drainage area. The site consists of a reverse sloping screen (RSS) constructed into the concrete vault.

Basin 1085L is located along SR-73 at KP 36.2 (PM 22.5) within the City of Newport Beach, CA, adjacent to the Bonita Canyon Drive off-ramp from southbound SR-73. The site does not have a flow equalization basin. Basin 1085L receives storm water runoff from approximately 2.03 acres of drainage area. The site consists of a forward sloping screen constructed into the concrete vault.

Basin 1180R is located along SR-73 at KP 39.0 (PM 24.5) within the City of Newport Beach, CA, adjacent to the south-bound Macarthur Blvd. off-ramp to University Drive. The site consists of an inclined screen constructed into the open concrete vault. The site receives storm water runoff from approximately 13.9 acres of drainage area. The runoff discharges into the basin through six outfalls, and consists of approximately 8.5 acres of roadway runoff (Route 73, Macarthur Blvd., and ramps), and 5.4 acres of non-roadway runoff (unpaved vegetated and median areas).

Basin 1081L is located along SR-73 at KP 36.23 (PM 22.51) within the City of Irvine, CA, in a triangular area bounded by southbound Route 73, the off-ramp from southbound Route 73 to Bonita Canyon Road and the on-ramp from Bonita Canyon Road to southbound Route 73. The site receives runoff from approximately 3.02 acres. The drainage area consists of 2.10 acres of paved areas and 0.92 acres of unpaved areas. Basin 1081L has been modified by removing the CSF unit and converting the flow equalization basin to a detention basin. The basin inlets have been modified to include two linear radial type GSRDs. One GSRD is 24 inches diameter by 10 feet long and the second is 18 inches diameter by 11 feet long.

Table 4.2.0 SR-73 Treatment Technology Pilot Studies Monitoring Sites

Site ID	Outfall ID	Caltrans District	Regional Board	County	Catchment Area (hectares)
12-301	1085L	12	Santa Ana	Orange	0.800
12-302	1180R	12	Santa Ana	Orange	5.600
12-303	1076R	12	Santa Ana	Orange	2.900
12-304	1081L	12	Santa Ana	Orange	1.200

**Table 4.2.1 Caltrans Site ID 12-301
Gross Solids Data Summary**

Site ID	Outfall ID	Mobilization ID	Sample Date	Wet/Dry	Constituent	Reported Value	Units
12-301	1085L	2004-02	6/8/2005	D	Total Gross Solids	818000	mL
12-301	1085L	2004-02	6/8/2005	D	Total Gross Solids	840260	g

**Table 4.2.2 Caltrans Site ID 12-302
Gross Solids Data Summary**

Site ID	Outfall ID	Mobilization ID	Sample Date	Wet/Dry	Constituent	Reported Value	Units
12-302	1180R	2004-02	6/8/2005	D	Total Gross Solids	549100	g
12-302	1180R	2004-02	6/8/2005	D	Total Gross Solids	473000	mL

**Table 4.2.3 Caltrans Site ID 12-303
Gross Solids Data Summary**

Site ID	Outfall ID	Mobilization ID	Sample Date	Wet/Dry	Constituent	Reported Value	Units
12-303	1076R	2004-01	3/10/2005	D	Total Gross Solids	3030000	mL
12-303	1076R	2004-01	3/10/2005	D	Total Gross Solids	4626640	g
12-303	1076R	2004-03	6/29/2005	D	Total Gross Solids	2448150	g
12-303	1076R	2004-03	6/29/2005	D	Total Gross Solids	2011000	mL

**Table 4.2.4 Caltrans Site ID 12-304
Gross Solids Data Summary**

Site ID	Outfall ID	Mobilization ID	Sample Date	Wet/Dry	Constituent	Reported Value	Units
12-304	1081L	2004-02	6/8/2005	D	Total Gross Solids	114000	mL
12-304	1081L	2004-02	6/8/2005	D	Total Gross Solids	73080	g

4.3 Drain Inlet Cleaning Efficacy (DICE) Study

The objective of the Drain Inlet Cleaning Efficacy (DICE) Study is to collect data that can be used to evaluate the potential effectiveness of drain inlet cleaning as a management practice for improving the quantity of litter in highway storm water runoff. Specifically, the data collected under the monitoring program is designed to help assess the effects of drain inlet cleaning on the litter quantity in storm water runoff.

In order to accomplish these objectives the following measurements were taken:

- Gross pollutants wet volume and wet weight. This includes litter and vegetation components. Sediment is included in the vegetation component.
- Litter wet volume, wet weight, 24-hour air dried volume, 24-hour air dried weight.
- Vegetation wet volume and wet weight.

Table 4.3.0 Drain Inlet Cleaning Efficacy (DICE) Study Monitoring Sites

Site ID	Outfall ID	Caltrans District	Regional Board	County	Catchment Area (hectares)
7-12	DICE SITE 26	7	Los Angeles	Los Angeles	12.590
7-19	DICE SITE 27	7	Los Angeles	Los Angeles	3.600
7-21	DICE SITE 23	7	Los Angeles	Los Angeles	2.910
7-220	DICE SITE 21	7	Los Angeles	Los Angeles	0.490
7-221	DICE SITE 22	7	Los Angeles	Los Angeles	0.890
7-222	DICE SITE 24	7	Los Angeles	Los Angeles	2.910
7-223	DICE SITE 28	7	Los Angeles	Los Angeles	2.750
7-224	DICE SITE 29	7	Los Angeles	Los Angeles	0.810

**Table 4.3.1 Caltrans Site ID 7-12
Gross Solids Data Summary**

Site ID	Outfall ID	Mobilization ID	Sample Date	Wet/Dry	Constituent	Reported Value	Units
7-12	DICE SITE 26	2004-01	10/26/2004	W	Vegetation	156000	mL
7-12	DICE SITE 26	2004-01	10/26/2004	W	Vegetation	91140	g
7-12	DICE SITE 26	2004-01	10/26/2004	D	Litter	18480	g
7-12	DICE SITE 26	2004-01	10/26/2004	W	Total Gross Solids	114180	g
7-12	DICE SITE 26	2004-01	10/26/2004	W	Litter	85000	mL
7-12	DICE SITE 26	2004-01	10/26/2004	W	Total Gross Solids	230000	mL
7-12	DICE SITE 26	2004-01	10/26/2004	D	Litter	72000	mL
7-12	DICE SITE 26	2004-01	10/26/2004	W	Litter	20860	g
7-12	DICE SITE 26	2004-02	10/28/2004	W	Litter	12000	mL
7-12	DICE SITE 26	2004-02	10/28/2004	W	Litter	6080	g
7-12	DICE SITE 26	2004-02	10/28/2004	W	Total Gross Solids	102140	g
7-12	DICE SITE 26	2004-02	10/28/2004	W	Vegetation	95980	g
7-12	DICE SITE 26	2004-02	10/28/2004	W	Total Gross Solids	98000	mL
7-12	DICE SITE 26	2004-02	10/28/2004	D	Litter	13000	mL
7-12	DICE SITE 26	2004-02	10/28/2004	D	Litter	5340	g
7-12	DICE SITE 26	2004-02	10/28/2004	W	Vegetation	88000	mL
7-12	DICE SITE 26	2004-04	11/23/2004	D	Litter	7000	mL
7-12	DICE SITE 26	2004-04	11/23/2004	W	Litter	2540	g
7-12	DICE SITE 26	2004-04	11/23/2004	W	Total Gross Solids	75520	g
7-12	DICE SITE 26	2004-04	11/23/2004	W	Vegetation	68000	mL
7-12	DICE SITE 26	2004-04	11/23/2004	W	Litter	12500	mL
7-12	DICE SITE 26	2004-04	11/23/2004	W	Total Gross Solids	83000	mL
7-12	DICE SITE 26	2004-04	11/23/2004	D	Litter	2080	g
7-12	DICE SITE 26	2004-04	11/23/2004	W	Vegetation	72480	g
7-12	DICE SITE 26	2004-05	12/3/2004	W	Litter	0	mL
7-12	DICE SITE 26	2004-05	12/3/2004	D	Litter	0	g
7-12	DICE SITE 26	2004-05	12/3/2004	W	Vegetation	0	mL
7-12	DICE SITE 26	2004-05	12/3/2004	W	Total Gross Solids	0	g
7-12	DICE SITE 26	2004-05	12/3/2004	W	Litter	0	g
7-12	DICE SITE 26	2004-05	12/3/2004	W	Vegetation	0	g
7-12	DICE SITE 26	2004-05	12/3/2004	D	Litter	0	mL
7-12	DICE SITE 26	2004-05	12/3/2004	W	Total Gross Solids	0	mL
7-12	DICE SITE 26	2004-06	12/7/2004	W	Litter	2510	g
7-12	DICE SITE 26	2004-06	12/7/2004	D	Litter	1820	g
7-12	DICE SITE 26	2004-06	12/7/2004	D	Litter	9000	mL
7-12	DICE SITE 26	2004-06	12/7/2004	W	Total Gross Solids	52000	mL
7-12	DICE SITE 26	2004-06	12/7/2004	W	Litter	10100	mL
7-12	DICE SITE 26	2004-06	12/7/2004	W	Total Gross Solids	65900	g
7-12	DICE SITE 26	2004-06	12/7/2004	W	Vegetation	63380	g
7-12	DICE SITE 26	2004-06	12/7/2004	W	Vegetation	42000	mL
7-12	DICE SITE 26	2004-08	12/22/2004	W	Total Gross Solids	0	g

Site ID	Outfall ID	Mobilization ID	Sample Date	Wet/Dry	Constituent	Reported Value	Units
7-12	DICE SITE 26	2004-08	12/22/2004	W	Litter	0	g
7-12	DICE SITE 26	2004-08	12/22/2004	W	Vegetation	0	g
7-12	DICE SITE 26	2004-08	12/22/2004	W	Vegetation	0	mL
7-12	DICE SITE 26	2004-08	12/22/2004	W	Litter	0	mL
7-12	DICE SITE 26	2004-08	12/22/2004	W	Total Gross Solids	0	mL
7-12	DICE SITE 26	2004-08	12/22/2004	D	Litter	0	mL
7-12	DICE SITE 26	2004-08	12/22/2004	D	Litter	0	g
7-12	DICE SITE 26	2004-09	12/30/2004	D	Litter	0	g
7-12	DICE SITE 26	2004-09	12/30/2004	W	Vegetation	0	g
7-12	DICE SITE 26	2004-09	12/30/2004	W	Litter	0	g
7-12	DICE SITE 26	2004-09	12/30/2004	W	Total Gross Solids	0	g
7-12	DICE SITE 26	2004-09	12/30/2004	W	Vegetation	0	mL
7-12	DICE SITE 26	2004-09	12/30/2004	W	Litter	0	mL
7-12	DICE SITE 26	2004-09	12/30/2004	W	Total Gross Solids	0	mL
7-12	DICE SITE 26	2004-09	12/30/2004	D	Litter	0	mL
7-12	DICE SITE 26	2004-10	1/5/2005	W	Total Gross Solids	0	mL
7-12	DICE SITE 26	2004-10	1/5/2005	W	Litter	0	g
7-12	DICE SITE 26	2004-10	1/5/2005	W	Total Gross Solids	0	g
7-12	DICE SITE 26	2004-10	1/5/2005	W	Vegetation	0	mL
7-12	DICE SITE 26	2004-10	1/5/2005	W	Litter	0	mL
7-12	DICE SITE 26	2004-10	1/5/2005	D	Litter	0	mL
7-12	DICE SITE 26	2004-10	1/5/2005	D	Litter	0	g
7-12	DICE SITE 26	2004-10	1/5/2005	W	Vegetation	0	g
7-12	DICE SITE 26	2004-11	1/13/2005	D	Litter	12880	g
7-12	DICE SITE 26	2004-11	1/13/2005	D	Litter	28000	mL
7-12	DICE SITE 26	2004-11	1/13/2005	W	Total Gross Solids	37000	mL
7-12	DICE SITE 26	2004-11	1/13/2005	W	Litter	369000	mL
7-12	DICE SITE 26	2004-11	1/13/2005	W	Vegetation	343000	mL
7-12	DICE SITE 26	2004-11	1/13/2005	W	Total Gross Solids	324110	g
7-12	DICE SITE 26	2004-11	1/13/2005	W	Litter	18170	g
7-12	DICE SITE 26	2004-11	1/13/2005	W	Vegetation	304320	g
7-12	DICE SITE 26	2004-12	1/25/2005	W	Litter	0	mL
7-12	DICE SITE 26	2004-12	1/25/2005	D	Litter	0	g
7-12	DICE SITE 26	2004-12	1/25/2005	W	Total Gross Solids	35000	mL
7-12	DICE SITE 26	2004-12	1/25/2005	W	Vegetation	35000	mL
7-12	DICE SITE 26	2004-12	1/25/2005	W	Total Gross Solids	52760	g
7-12	DICE SITE 26	2004-12	1/25/2005	W	Litter	0	g
7-12	DICE SITE 26	2004-12	1/25/2005	W	Vegetation	52760	g
7-12	DICE SITE 26	2004-12	1/25/2005	D	Litter	0	mL
7-12	DICE SITE 26	2004-13	2/1/2005	D	Litter	360	g
7-12	DICE SITE 26	2004-13	2/1/2005	W	Vegetation	42540	g
7-12	DICE SITE 26	2004-13	2/1/2005	W	Litter	690	g
7-12	DICE SITE 26	2004-13	2/1/2005	W	Total Gross Solids	43230	g
7-12	DICE SITE 26	2004-13	2/1/2005	W	Vegetation	23000	mL

Site ID	Outfall ID	Mobilization ID	Sample Date	Wet/Dry	Constituent	Reported Value	Units
7-12	DICE SITE 26	2004-13	2/1/2005	W	Litter	2000	mL
7-12	DICE SITE 26	2004-13	2/1/2005	W	Total Gross Solids	25000	mL
7-12	DICE SITE 26	2004-13	2/1/2005	D	Litter	1000	mL
7-12	DICE SITE 26	2004-15	2/14/2005	W	Total Gross Solids	120860	g
7-12	DICE SITE 26	2004-15	2/14/2005	W	Vegetation	87000	mL
7-12	DICE SITE 26	2004-15	2/14/2005	W	Total Gross Solids	117000	mL
7-12	DICE SITE 26	2004-15	2/14/2005	D	Litter	22000	mL
7-12	DICE SITE 26	2004-15	2/14/2005	W	Vegetation	110980	g
7-12	DICE SITE 26	2004-15	2/14/2005	W	Litter	30000	mL
7-12	DICE SITE 26	2004-15	2/14/2005	D	Litter	7200	g
7-12	DICE SITE 26	2004-15	2/14/2005	W	Litter	9880	g
7-12	DICE SITE 26	2004-16	2/25/2005	D	Litter	0	mL
7-12	DICE SITE 26	2004-16	2/25/2005	W	Total Gross Solids	0	g
7-12	DICE SITE 26	2004-16	2/25/2005	W	Vegetation	0	mL
7-12	DICE SITE 26	2004-16	2/25/2005	W	Vegetation	0	g
7-12	DICE SITE 26	2004-16	2/25/2005	W	Total Gross Solids	0	mL
7-12	DICE SITE 26	2004-16	2/25/2005	D	Litter	0	g
7-12	DICE SITE 26	2004-16	2/25/2005	W	Litter	0	g
7-12	DICE SITE 26	2004-16	2/25/2005	W	Litter	0	mL
7-12	DICE SITE 26	2004-17	3/9/2005	W	Total Gross Solids	409320	g
7-12	DICE SITE 26	2004-17	3/9/2005	W	Vegetation	402660	g
7-12	DICE SITE 26	2004-17	3/9/2005	W	Litter	6600	g
7-12	DICE SITE 26	2004-17	3/9/2005	W	Litter	21000	mL
7-12	DICE SITE 26	2004-17	3/9/2005	W	Total Gross Solids	462000	mL
7-12	DICE SITE 26	2004-17	3/9/2005	D	Litter	17000	mL
7-12	DICE SITE 26	2004-17	3/9/2005	D	Litter	5720	g
7-12	DICE SITE 26	2004-17	3/9/2005	W	Vegetation	441000	mL
7-12	DICE SITE 26	2004-18	3/18/2005	W	Litter	0	mL
7-12	DICE SITE 26	2004-18	3/18/2005	W	Total Gross Solids	0	g
7-12	DICE SITE 26	2004-18	3/18/2005	W	Litter	0	g
7-12	DICE SITE 26	2004-18	3/18/2005	W	Vegetation	0	g
7-12	DICE SITE 26	2004-18	3/18/2005	D	Litter	0	mL
7-12	DICE SITE 26	2004-18	3/18/2005	W	Total Gross Solids	0	mL
7-12	DICE SITE 26	2004-18	3/18/2005	W	Vegetation	0	mL
7-12	DICE SITE 26	2004-19	3/21/2005	W	Total Gross Solids	143000	mL
7-12	DICE SITE 26	2004-19	3/21/2005	W	Litter	1750	g
7-12	DICE SITE 26	2004-19	3/21/2005	D	Litter	1400	g
7-12	DICE SITE 26	2004-19	3/21/2005	D	Litter	7000	mL
7-12	DICE SITE 26	2004-19	3/21/2005	W	Vegetation	193810	g
7-12	DICE SITE 26	2004-19	3/21/2005	W	Total Gross Solids	195900	g
7-12	DICE SITE 26	2004-19	3/21/2005	W	Vegetation	125000	mL
7-12	DICE SITE 26	2004-19	3/21/2005	W	Litter	11000	mL
7-12	DICE SITE 26	2004-20	4/1/2005	D	Litter	1290	g

Site ID	Outfall ID	Mobilization ID	Sample Date	Wet/Dry	Constituent	Reported Value	Units
7-12	DICE SITE 26	2004-20	4/1/2005	D	Litter	8000	mL
7-12	DICE SITE 26	2004-20	4/1/2005	W	Total Gross Solids	92000	mL
7-12	DICE SITE 26	2004-20	4/1/2005	W	Litter	8000	mL
7-12	DICE SITE 26	2004-20	4/1/2005	W	Vegetation	84000	mL
7-12	DICE SITE 26	2004-20	4/1/2005	W	Total Gross Solids	116100	g
7-12	DICE SITE 26	2004-20	4/1/2005	W	Litter	1650	g
7-12	DICE SITE 26	2004-20	4/1/2005	W	Vegetation	114380	g
7-12	DICE SITE 26	2004-22	4/21/2005	W	Vegetation	0	g
7-12	DICE SITE 26	2004-22	4/21/2005	W	Litter	0	g
7-12	DICE SITE 26	2004-22	4/21/2005	W	Total Gross Solids	0	g
7-12	DICE SITE 26	2004-22	4/21/2005	W	Vegetation	0	mL
7-12	DICE SITE 26	2004-22	4/21/2005	W	Litter	0	mL
7-12	DICE SITE 26	2004-22	4/21/2005	W	Total Gross Solids	0	mL
7-12	DICE SITE 26	2004-22	4/21/2005	D	Litter	0	g
7-12	DICE SITE 26	2004-22	4/21/2005	D	Litter	0	mL
7-12	DICE SITE 26	2004-23	5/2/2005	W	Litter	28000	mL
7-12	DICE SITE 26	2004-23	5/2/2005	W	Total Gross Solids	134000	mL
7-12	DICE SITE 26	2004-23	5/2/2005	W	Total Gross Solids	138720	g
7-12	DICE SITE 26	2004-23	5/2/2005	D	Litter	20000	mL
7-12	DICE SITE 26	2004-23	5/2/2005	W	Vegetation	103000	mL
7-12	DICE SITE 26	2004-23	5/2/2005	W	Litter	7180	g
7-12	DICE SITE 26	2004-23	5/2/2005	W	Vegetation	131500	g
7-12	DICE SITE 26	2004-23	5/2/2005	D	Litter	5900	g

**Table 4.3.2 Caltrans Site ID 7-19
Gross Solids Data Summary**

Site ID	Outfall ID	Mobilization ID	Sample Date	Wet/Dry	Constituent	Reported Value	Units
7-19	DICE SITE 27	2004-01	10/26/2004	W	Vegetation	118420	g
7-19	DICE SITE 27	2004-01	10/26/2004	D	Litter	3140	g
7-19	DICE SITE 27	2004-01	10/26/2004	D	Litter	15000	mL
7-19	DICE SITE 27	2004-01	10/26/2004	W	Total Gross Solids	239000	mL
7-19	DICE SITE 27	2004-01	10/26/2004	W	Litter	16000	mL
7-19	DICE SITE 27	2004-01	10/26/2004	W	Vegetation	210000	mL
7-19	DICE SITE 27	2004-01	10/26/2004	W	Litter	4300	g
7-19	DICE SITE 27	2004-01	10/26/2004	W	Total Gross Solids	124040	g
7-19	DICE SITE 27	2004-02	10/28/2004	D	Litter	2000	mL
7-19	DICE SITE 27	2004-02	10/28/2004	W	Vegetation	29000	mL
7-19	DICE SITE 27	2004-02	10/28/2004	W	Litter	3000	mL
7-19	DICE SITE 27	2004-02	10/28/2004	W	Total Gross Solids	18980	g
7-19	DICE SITE 27	2004-02	10/28/2004	W	Total Gross Solids	32000	mL
7-19	DICE SITE 27	2004-02	10/28/2004	W	Litter	640	g
7-19	DICE SITE 27	2004-02	10/28/2004	W	Vegetation	18340	g
7-19	DICE SITE 27	2004-02	10/28/2004	D	Litter	360	g
7-19	DICE SITE 27	2004-04	11/23/2004	W	Vegetation	17600	g
7-19	DICE SITE 27	2004-04	11/23/2004	W	Total Gross Solids	45000	mL
7-19	DICE SITE 27	2004-04	11/23/2004	W	Litter	440	g
7-19	DICE SITE 27	2004-04	11/23/2004	W	Total Gross Solids	18300	g
7-19	DICE SITE 27	2004-04	11/23/2004	W	Vegetation	45000	mL
7-19	DICE SITE 27	2004-04	11/23/2004	W	Litter	3000	mL
7-19	DICE SITE 27	2004-04	11/23/2004	D	Litter	3000	mL
7-19	DICE SITE 27	2004-04	11/23/2004	D	Litter	300	g
7-19	DICE SITE 27	2004-05	12/3/2004	D	Litter	10	g
7-19	DICE SITE 27	2004-05	12/3/2004	D	Litter	1000	mL
7-19	DICE SITE 27	2004-05	12/3/2004	W	Litter	1000	mL
7-19	DICE SITE 27	2004-05	12/3/2004	W	Vegetation	60000	mL
7-19	DICE SITE 27	2004-05	12/3/2004	W	Total Gross Solids	16600	g
7-19	DICE SITE 27	2004-05	12/3/2004	W	Litter	60	g
7-19	DICE SITE 27	2004-05	12/3/2004	W	Vegetation	16100	g
7-19	DICE SITE 27	2004-05	12/3/2004	W	Total Gross Solids	60000	mL
7-19	DICE SITE 27	2004-06	12/7/2004	W	Vegetation	54000	mL
7-19	DICE SITE 27	2004-06	12/7/2004	W	Total Gross Solids	54000	mL
7-19	DICE SITE 27	2004-06	12/7/2004	W	Vegetation	57440	g
7-19	DICE SITE 27	2004-06	12/7/2004	W	Litter	500	g
7-19	DICE SITE 27	2004-06	12/7/2004	D	Litter	2000	mL
7-19	DICE SITE 27	2004-06	12/7/2004	W	Total Gross Solids	57950	g
7-19	DICE SITE 27	2004-06	12/7/2004	D	Litter	450	g
7-19	DICE SITE 27	2004-06	12/7/2004	W	Litter	2000	mL
7-19	DICE SITE 27	2004-07	12/16/2004	W	Total Gross Solids	163293	g

Site ID	Outfall ID	Mobilization ID	Sample Date	Wet/Dry	Constituent	Reported Value	Units
7-19	DICE SITE 27	2004-07	12/16/2004	W	Total Gross Solids	36500	mL
7-19	DICE SITE 27	2004-08	12/22/2004	W	Vegetation	0	g
7-19	DICE SITE 27	2004-08	12/22/2004	D	Litter	0	g
7-19	DICE SITE 27	2004-08	12/22/2004	W	Litter	0	mL
7-19	DICE SITE 27	2004-08	12/22/2004	D	Litter	0	mL
7-19	DICE SITE 27	2004-08	12/22/2004	W	Total Gross Solids	0	mL
7-19	DICE SITE 27	2004-08	12/22/2004	W	Litter	0	g
7-19	DICE SITE 27	2004-08	12/22/2004	W	Total Gross Solids	0	g
7-19	DICE SITE 27	2004-08	12/22/2004	W	Vegetation	0	mL
7-19	DICE SITE 27	2004-09	12/30/2004	D	Litter	880	g
7-19	DICE SITE 27	2004-09	12/30/2004	W	Litter	1480	g
7-19	DICE SITE 27	2004-09	12/30/2004	W	Total Gross Solids	47400	g
7-19	DICE SITE 27	2004-09	12/30/2004	W	Vegetation	83000	mL
7-19	DICE SITE 27	2004-09	12/30/2004	W	Vegetation	45920	g
7-19	DICE SITE 27	2004-09	12/30/2004	D	Litter	5000	mL
7-19	DICE SITE 27	2004-09	12/30/2004	W	Litter	6000	mL
7-19	DICE SITE 27	2004-09	12/30/2004	W	Total Gross Solids	88000	mL
7-19	DICE SITE 27	2004-10	1/5/2005	D	Litter	20	g
7-19	DICE SITE 27	2004-10	1/5/2005	W	Vegetation	19540	g
7-19	DICE SITE 27	2004-10	1/5/2005	W	Litter	140	g
7-19	DICE SITE 27	2004-10	1/5/2005	W	Total Gross Solids	20080	g
7-19	DICE SITE 27	2004-10	1/5/2005	W	Vegetation	12000	mL
7-19	DICE SITE 27	2004-10	1/5/2005	W	Litter	1000	mL
7-19	DICE SITE 27	2004-10	1/5/2005	W	Total Gross Solids	15000	mL
7-19	DICE SITE 27	2004-10	1/5/2005	D	Litter	1000	mL
7-19	DICE SITE 27	2004-11	1/13/2005	D	Litter	300	g
7-19	DICE SITE 27	2004-11	1/13/2005	D	Litter	3000	mL
7-19	DICE SITE 27	2004-11	1/13/2005	W	Total Gross Solids	54000	mL
7-19	DICE SITE 27	2004-11	1/13/2005	W	Litter	3000	mL
7-19	DICE SITE 27	2004-11	1/13/2005	W	Vegetation	51000	mL
7-19	DICE SITE 27	2004-11	1/13/2005	W	Total Gross Solids	37260	g
7-19	DICE SITE 27	2004-11	1/13/2005	W	Vegetation	35980	g
7-19	DICE SITE 27	2004-11	1/13/2005	W	Litter	1300	g
7-19	DICE SITE 27	2004-12	1/25/2005	W	Litter	0	mL
7-19	DICE SITE 27	2004-12	1/25/2005	D	Litter	0	g
7-19	DICE SITE 27	2004-12	1/25/2005	W	Total Gross Solids	0	mL
7-19	DICE SITE 27	2004-12	1/25/2005	W	Vegetation	0	mL
7-19	DICE SITE 27	2004-12	1/25/2005	W	Total Gross Solids	0	g
7-19	DICE SITE 27	2004-12	1/25/2005	W	Litter	0	g
7-19	DICE SITE 27	2004-12	1/25/2005	W	Vegetation	0	g
7-19	DICE SITE 27	2004-12	1/25/2005	D	Litter	0	mL
7-19	DICE SITE 27	2004-13	2/1/2005	D	Litter	320	g
7-19	DICE SITE 27	2004-13	2/1/2005	D	Litter	2000	mL
7-19	DICE SITE 27	2004-13	2/1/2005	W	Total Gross Solids	48000	mL

Site ID	Outfall ID	Mobilization ID	Sample Date	Wet/Dry	Constituent	Reported Value	Units
7-19	DICE SITE 27	2004-13	2/1/2005	W	Vegetation	46000	mL
7-19	DICE SITE 27	2004-13	2/1/2005	W	Litter	440	g
7-19	DICE SITE 27	2004-13	2/1/2005	W	Vegetation	59120	g
7-19	DICE SITE 27	2004-13	2/1/2005	W	Litter	2250	mL
7-19	DICE SITE 27	2004-13	2/1/2005	W	Total Gross Solids	59560	g
7-19	DICE SITE 27	2004-14	2/2/2005	W	Total Gross Solids	6500	mL
7-19	DICE SITE 27	2004-14	2/2/2005	W	Total Gross Solids	9072	g
7-19	DICE SITE 27	2004-15	2/14/2005	D	Litter	5500	mL
7-19	DICE SITE 27	2004-15	2/14/2005	W	Litter	2080	g
7-19	DICE SITE 27	2004-15	2/14/2005	W	Total Gross Solids	44660	g
7-19	DICE SITE 27	2004-15	2/14/2005	W	Vegetation	44000	mL
7-19	DICE SITE 27	2004-15	2/14/2005	W	Litter	6400	mL
7-19	DICE SITE 27	2004-15	2/14/2005	D	Litter	1820	g
7-19	DICE SITE 27	2004-15	2/14/2005	W	Total Gross Solids	50000	mL
7-19	DICE SITE 27	2004-15	2/14/2005	W	Vegetation	42580	g
7-19	DICE SITE 27	2004-16	2/25/2005	W	Total Gross Solids	38360	g
7-19	DICE SITE 27	2004-16	2/25/2005	W	Vegetation	50000	mL
7-19	DICE SITE 27	2004-16	2/25/2005	W	Litter	9001	mL
7-19	DICE SITE 27	2004-16	2/25/2005	W	Total Gross Solids	59000	mL
7-19	DICE SITE 27	2004-16	2/25/2005	D	Litter	7001	mL
7-19	DICE SITE 27	2004-16	2/25/2005	D	Litter	860	g
7-19	DICE SITE 27	2004-16	2/25/2005	W	Vegetation	36560	g
7-19	DICE SITE 27	2004-16	2/25/2005	W	Litter	1800	g
7-19	DICE SITE 27	2004-17	3/9/2005	W	Vegetation	0	g
7-19	DICE SITE 27	2004-17	3/9/2005	D	Litter	0	g
7-19	DICE SITE 27	2004-17	3/9/2005	D	Litter	0	mL
7-19	DICE SITE 27	2004-17	3/9/2005	W	Total Gross Solids	0	mL
7-19	DICE SITE 27	2004-17	3/9/2005	W	Litter	0	mL
7-19	DICE SITE 27	2004-17	3/9/2005	W	Vegetation	0	mL
7-19	DICE SITE 27	2004-17	3/9/2005	W	Total Gross Solids	0	g
7-19	DICE SITE 27	2004-17	3/9/2005	W	Litter	0	g
7-19	DICE SITE 27	2004-18	3/18/2005	D	Litter	0	g
7-19	DICE SITE 27	2004-18	3/18/2005	W	Vegetation	0	g
7-19	DICE SITE 27	2004-18	3/18/2005	W	Litter	0	g
7-19	DICE SITE 27	2004-18	3/18/2005	W	Total Gross Solids	0	g
7-19	DICE SITE 27	2004-18	3/18/2005	W	Litter	0	mL
7-19	DICE SITE 27	2004-18	3/18/2005	W	Total Gross Solids	0	mL
7-19	DICE SITE 27	2004-18	3/18/2005	D	Litter	0	mL
7-19	DICE SITE 27	2004-18	3/18/2005	W	Vegetation	0	mL
7-19	DICE SITE 27	2004-19	3/21/2005	W	Total Gross Solids	0	g
7-19	DICE SITE 27	2004-19	3/21/2005	W	Total Gross Solids	0	mL
7-19	DICE SITE 27	2004-19	3/21/2005	W	Vegetation	0	mL
7-19	DICE SITE 27	2004-19	3/21/2005	D	Litter	0	g
7-19	DICE SITE 27	2004-19	3/21/2005	W	Litter	0	mL

Site ID	Outfall ID	Mobilization ID	Sample Date	Wet/Dry	Constituent	Reported Value	Units
7-19	DICE SITE 27	2004-19	3/21/2005	W	Vegetation	0	g
7-19	DICE SITE 27	2004-19	3/21/2005	W	Litter	0	g
7-19	DICE SITE 27	2004-19	3/21/2005	D	Litter	0	mL
7-19	DICE SITE 27	2004-20	4/1/2005	W	Vegetation	0	mL
7-19	DICE SITE 27	2004-20	4/1/2005	D	Litter	0	mL
7-19	DICE SITE 27	2004-20	4/1/2005	W	Litter	0	mL
7-19	DICE SITE 27	2004-20	4/1/2005	W	Litter	0	g
7-19	DICE SITE 27	2004-20	4/1/2005	W	Total Gross Solids	0	mL
7-19	DICE SITE 27	2004-20	4/1/2005	W	Vegetation	0	g
7-19	DICE SITE 27	2004-20	4/1/2005	D	Litter	0	g
7-19	DICE SITE 27	2004-20	4/1/2005	W	Total Gross Solids	0	g
7-19	DICE SITE 27	2004-21	4/7/2005	W	Total Gross Solids	18144	g
7-19	DICE SITE 27	2004-21	4/7/2005	W	Total Gross Solids	7000	mL
7-19	DICE SITE 27	2004-22	4/21/2005	W	Vegetation	0	g
7-19	DICE SITE 27	2004-22	4/21/2005	D	Litter	0	mL
7-19	DICE SITE 27	2004-22	4/21/2005	W	Total Gross Solids	0	mL
7-19	DICE SITE 27	2004-22	4/21/2005	W	Litter	0	mL
7-19	DICE SITE 27	2004-22	4/21/2005	W	Vegetation	0	mL
7-19	DICE SITE 27	2004-22	4/21/2005	W	Total Gross Solids	0	g
7-19	DICE SITE 27	2004-22	4/21/2005	W	Litter	0	g
7-19	DICE SITE 27	2004-22	4/21/2005	D	Litter	0	g
7-19	DICE SITE 27	2004-23	5/2/2005	W	Litter	0	g
7-19	DICE SITE 27	2004-23	5/2/2005	W	Litter	0	mL
7-19	DICE SITE 27	2004-23	5/2/2005	W	Total Gross Solids	14280	g
7-19	DICE SITE 27	2004-23	5/2/2005	W	Vegetation	11000	mL
7-19	DICE SITE 27	2004-23	5/2/2005	W	Total Gross Solids	11000	mL
7-19	DICE SITE 27	2004-23	5/2/2005	D	Litter	0	g
7-19	DICE SITE 27	2004-23	5/2/2005	W	Vegetation	14280	g
7-19	DICE SITE 27	2004-23	5/2/2005	D	Litter	0	mL

**Table 4.3.3 Caltrans Site ID 7-21
Gross Solids Data Summary**

Site ID	Outfall ID	Mobilization ID	Sample Date	Wet/Dry	Constituent	Reported Value	Units
7-21	DICE SITE 23	2004-01	10/26/2004	W	Total Gross Solids	45060	g
7-21	DICE SITE 23	2004-01	10/26/2004	W	Litter	12000	mL
7-21	DICE SITE 23	2004-01	10/26/2004	W	Vegetation	40920	g
7-21	DICE SITE 23	2004-01	10/26/2004	W	Litter	2840	g
7-21	DICE SITE 23	2004-01	10/26/2004	D	Litter	2420	g
7-21	DICE SITE 23	2004-01	10/26/2004	D	Litter	11000	mL
7-21	DICE SITE 23	2004-01	10/26/2004	W	Vegetation	75000	mL
7-21	DICE SITE 23	2004-01	10/26/2004	W	Total Gross Solids	83000	mL
7-21	DICE SITE 23	2004-02	10/28/2004	W	Total Gross Solids	13540	g
7-21	DICE SITE 23	2004-02	10/28/2004	D	Litter	560	g
7-21	DICE SITE 23	2004-02	10/28/2004	W	Litter	560	g
7-21	DICE SITE 23	2004-02	10/28/2004	W	Vegetation	23000	mL
7-21	DICE SITE 23	2004-02	10/28/2004	W	Litter	4000	mL
7-21	DICE SITE 23	2004-02	10/28/2004	W	Total Gross Solids	27000	mL
7-21	DICE SITE 23	2004-02	10/28/2004	D	Litter	2000	mL
7-21	DICE SITE 23	2004-02	10/28/2004	W	Vegetation	13020	g
7-21	DICE SITE 23	2004-04	11/23/2004	W	Vegetation	0	mL
7-21	DICE SITE 23	2004-04	11/23/2004	W	Vegetation	0	g
7-21	DICE SITE 23	2004-04	11/23/2004	W	Total Gross Solids	0	g
7-21	DICE SITE 23	2004-04	11/23/2004	W	Litter	0	mL
7-21	DICE SITE 23	2004-04	11/23/2004	W	Total Gross Solids	0	mL
7-21	DICE SITE 23	2004-04	11/23/2004	D	Litter	0	mL
7-21	DICE SITE 23	2004-04	11/23/2004	D	Litter	0	g
7-21	DICE SITE 23	2004-04	11/23/2004	W	Litter	0	g
7-21	DICE SITE 23	2004-04	11/23/2004	W	Total Gross Solids	0	mL
7-21	DICE SITE 23	2004-05	12/3/2004	D	Litter	0	g
7-21	DICE SITE 23	2004-05	12/3/2004	W	Total Gross Solids	0	mL
7-21	DICE SITE 23	2004-05	12/3/2004	W	Litter	0	mL
7-21	DICE SITE 23	2004-05	12/3/2004	W	Vegetation	0	mL
7-21	DICE SITE 23	2004-05	12/3/2004	W	Vegetation	0	g
7-21	DICE SITE 23	2004-05	12/3/2004	W	Litter	0	g
7-21	DICE SITE 23	2004-05	12/3/2004	D	Litter	0	g
7-21	DICE SITE 23	2004-05	12/3/2004	W	Total Gross Solids	0	g
7-21	DICE SITE 23	2004-06	12/7/2004	D	Litter	180	g
7-21	DICE SITE 23	2004-06	12/7/2004	W	Vegetation	9000	mL
7-21	DICE SITE 23	2004-06	12/7/2004	W	Litter	300	g
7-21	DICE SITE 23	2004-06	12/7/2004	W	Vegetation	8000	g
7-21	DICE SITE 23	2004-06	12/7/2004	W	Litter	2000	mL
7-21	DICE SITE 23	2004-06	12/7/2004	W	Total Gross Solids	11000	mL
7-21	DICE SITE 23	2004-06	12/7/2004	D	Litter	2000	mL
7-21	DICE SITE 23	2004-06	12/7/2004	W	Total Gross Solids	8300	g

Site ID	Outfall ID	Mobilization ID	Sample Date	Wet/Dry	Constituent	Reported Value	Units
7-21	DICE SITE 23	2004-07	12/16/2004	W	Total Gross Solids	131500	mL
7-21	DICE SITE 23	2004-07	12/16/2004	W	Total Gross Solids	99790	g
7-21	DICE SITE 23	2004-08	12/22/2004	W	Litter	0	g
7-21	DICE SITE 23	2004-08	12/22/2004	W	Total Gross Solids	0	g
7-21	DICE SITE 23	2004-08	12/22/2004	W	Vegetation	0	mL
7-21	DICE SITE 23	2004-08	12/22/2004	W	Vegetation	0	g
7-21	DICE SITE 23	2004-08	12/22/2004	W	Litter	0	mL
7-21	DICE SITE 23	2004-08	12/22/2004	W	Total Gross Solids	0	mL
7-21	DICE SITE 23	2004-08	12/22/2004	D	Litter	0	g
7-21	DICE SITE 23	2004-08	12/22/2004	D	Litter	0	mL
7-21	DICE SITE 23	2004-09	12/30/2004	W	Total Gross Solids	60680	g
7-21	DICE SITE 23	2004-09	12/30/2004	W	Litter	2770	g
7-21	DICE SITE 23	2004-09	12/30/2004	W	Vegetation	57860	g
7-21	DICE SITE 23	2004-09	12/30/2004	W	Litter	10000	mL
7-21	DICE SITE 23	2004-09	12/30/2004	W	Total Gross Solids	94000	mL
7-21	DICE SITE 23	2004-09	12/30/2004	D	Litter	10000	mL
7-21	DICE SITE 23	2004-09	12/30/2004	D	Litter	1360	g
7-21	DICE SITE 23	2004-09	12/30/2004	W	Vegetation	83000	mL
7-21	DICE SITE 23	2004-10	1/5/2005	D	Litter	2000	mL
7-21	DICE SITE 23	2004-10	1/5/2005	W	Vegetation	42220	g
7-21	DICE SITE 23	2004-10	1/5/2005	W	Litter	340	g
7-21	DICE SITE 23	2004-10	1/5/2005	W	Total Gross Solids	43100	g
7-21	DICE SITE 23	2004-10	1/5/2005	W	Vegetation	29000	mL
7-21	DICE SITE 23	2004-10	1/5/2005	W	Total Gross Solids	33000	mL
7-21	DICE SITE 23	2004-10	1/5/2005	D	Litter	290	g
7-21	DICE SITE 23	2004-10	1/5/2005	W	Litter	2000	mL
7-21	DICE SITE 23	2004-11	1/13/2005	D	Litter	220	g
7-21	DICE SITE 23	2004-11	1/13/2005	W	Vegetation	24900	g
7-21	DICE SITE 23	2004-11	1/13/2005	W	Litter	2020	g
7-21	DICE SITE 23	2004-11	1/13/2005	W	Total Gross Solids	26870	g
7-21	DICE SITE 23	2004-11	1/13/2005	W	Vegetation	29000	mL
7-21	DICE SITE 23	2004-11	1/13/2005	W	Litter	4000	mL
7-21	DICE SITE 23	2004-11	1/13/2005	W	Total Gross Solids	31000	mL
7-21	DICE SITE 23	2004-11	1/13/2005	D	Litter	3000	mL
7-21	DICE SITE 23	2004-12	1/25/2005	W	Total Gross Solids	0	mL
7-21	DICE SITE 23	2004-12	1/25/2005	D	Litter	0	mL
7-21	DICE SITE 23	2004-12	1/25/2005	W	Litter	0	mL
7-21	DICE SITE 23	2004-12	1/25/2005	W	Vegetation	0	mL
7-21	DICE SITE 23	2004-12	1/25/2005	W	Total Gross Solids	0	g
7-21	DICE SITE 23	2004-12	1/25/2005	W	Litter	0	g
7-21	DICE SITE 23	2004-12	1/25/2005	W	Vegetation	0	g
7-21	DICE SITE 23	2004-12	1/25/2005	D	Litter	0	g
7-21	DICE SITE 23	2004-13	2/1/2005	D	Litter	420	g

Site ID	Outfall ID	Mobilization ID	Sample Date	Wet/Dry	Constituent	Reported Value	Units
7-21	DICE SITE 23	2004-13	2/1/2005	D	Litter	2000	mL
7-21	DICE SITE 23	2004-13	2/1/2005	W	Total Gross Solids	15000	mL
7-21	DICE SITE 23	2004-13	2/1/2005	W	Vegetation	11000	mL
7-21	DICE SITE 23	2004-13	2/1/2005	W	Litter	600	g
7-21	DICE SITE 23	2004-13	2/1/2005	W	Vegetation	8820	g
7-21	DICE SITE 23	2004-13	2/1/2005	W	Litter	4000	mL
7-21	DICE SITE 23	2004-13	2/1/2005	W	Total Gross Solids	9420	g
7-21	DICE SITE 23	2004-14	2/3/2005	W	Total Gross Solids	24500	mL
7-21	DICE SITE 23	2004-14	2/3/2005	W	Total Gross Solids	54431	g
7-21	DICE SITE 23	2004-15	2/14/2005	W	Vegetation	56000	mL
7-21	DICE SITE 23	2004-15	2/14/2005	D	Litter	980	g
7-21	DICE SITE 23	2004-15	2/14/2005	D	Litter	3000	mL
7-21	DICE SITE 23	2004-15	2/14/2005	W	Litter	4000	mL
7-21	DICE SITE 23	2004-15	2/14/2005	W	Total Gross Solids	37080	g
7-21	DICE SITE 23	2004-15	2/14/2005	W	Litter	1180	g
7-21	DICE SITE 23	2004-15	2/14/2005	W	Vegetation	35900	g
7-21	DICE SITE 23	2004-15	2/14/2005	W	Total Gross Solids	60000	mL
7-21	DICE SITE 23	2004-16	2/25/2005	W	Vegetation	33420	g
7-21	DICE SITE 23	2004-16	2/25/2005	D	Litter	880	g
7-21	DICE SITE 23	2004-16	2/25/2005	D	Litter	7000	mL
7-21	DICE SITE 23	2004-16	2/25/2005	W	Total Gross Solids	46000	mL
7-21	DICE SITE 23	2004-16	2/25/2005	W	Litter	7000	mL
7-21	DICE SITE 23	2004-16	2/25/2005	W	Vegetation	39000	mL
7-21	DICE SITE 23	2004-16	2/25/2005	W	Litter	1280	g
7-21	DICE SITE 23	2004-16	2/25/2005	W	Total Gross Solids	34700	g
7-21	DICE SITE 23	2004-17	3/10/2005	W	Litter	3000	mL
7-21	DICE SITE 23	2004-17	3/10/2005	W	Vegetation	46160	g
7-21	DICE SITE 23	2004-17	3/10/2005	D	Litter	4000	mL
7-21	DICE SITE 23	2004-17	3/10/2005	D	Litter	820	g
7-21	DICE SITE 23	2004-17	3/10/2005	W	Total Gross Solids	47820	g
7-21	DICE SITE 23	2004-17	3/10/2005	W	Total Gross Solids	37000	mL
7-21	DICE SITE 23	2004-17	3/10/2005	W	Vegetation	34000	mL
7-21	DICE SITE 23	2004-17	3/10/2005	W	Litter	1660	g
7-21	DICE SITE 23	2004-18	3/18/2005	D	Litter	0	g
7-21	DICE SITE 23	2004-18	3/18/2005	W	Total Gross Solids	0	g
7-21	DICE SITE 23	2004-18	3/18/2005	W	Litter	0	g
7-21	DICE SITE 23	2004-18	3/18/2005	D	Litter	0	mL
7-21	DICE SITE 23	2004-18	3/18/2005	W	Total Gross Solids	0	mL
7-21	DICE SITE 23	2004-18	3/18/2005	W	Litter	0	mL
7-21	DICE SITE 23	2004-18	3/18/2005	W	Vegetation	0	mL
7-21	DICE SITE 23	2004-18	3/18/2005	W	Vegetation	0	g
7-21	DICE SITE 23	2004-19	3/21/2005	W	Total Gross Solids	0	g
7-21	DICE SITE 23	2004-19	3/21/2005	D	Litter	0	g

Site ID	Outfall ID	Mobilization ID	Sample Date	Wet/Dry	Constituent	Reported Value	Units
7-21	DICE SITE 23	2004-19	3/21/2005	W	Litter	0	mL
7-21	DICE SITE 23	2004-19	3/21/2005	W	Vegetation	0	g
7-21	DICE SITE 23	2004-19	3/21/2005	D	Litter	0	mL
7-21	DICE SITE 23	2004-19	3/21/2005	W	Litter	0	g
7-21	DICE SITE 23	2004-19	3/21/2005	W	Total Gross Solids	0	mL
7-21	DICE SITE 23	2004-19	3/21/2005	W	Vegetation	0	mL
7-21	DICE SITE 23	2004-20	4/1/2005	W	Vegetation	18520	g
7-21	DICE SITE 23	2004-20	4/1/2005	D	Litter	1120	g
7-21	DICE SITE 23	2004-20	4/1/2005	D	Litter	12000	mL
7-21	DICE SITE 23	2004-20	4/1/2005	W	Total Gross Solids	67000	mL
7-21	DICE SITE 23	2004-20	4/1/2005	W	Litter	12000	mL
7-21	DICE SITE 23	2004-20	4/1/2005	W	Vegetation	54000	mL
7-21	DICE SITE 23	2004-20	4/1/2005	W	Litter	1300	g
7-21	DICE SITE 23	2004-20	4/1/2005	W	Total Gross Solids	19820	g
7-21	DICE SITE 23	2004-21	4/8/2005	W	Total Gross Solids	72575	g
7-21	DICE SITE 23	2004-21	4/8/2005	W	Total Gross Solids	10500	mL
7-21	DICE SITE 23	2004-22	4/21/2005	W	Litter	0	mL
7-21	DICE SITE 23	2004-22	4/21/2005	D	Litter	0	mL
7-21	DICE SITE 23	2004-22	4/21/2005	W	Total Gross Solids	0	mL
7-21	DICE SITE 23	2004-22	4/21/2005	W	Vegetation	0	g
7-21	DICE SITE 23	2004-22	4/21/2005	W	Litter	0	g
7-21	DICE SITE 23	2004-22	4/21/2005	W	Total Gross Solids	0	g
7-21	DICE SITE 23	2004-22	4/21/2005	W	Vegetation	0	mL
7-21	DICE SITE 23	2004-22	4/21/2005	D	Litter	0	g
7-21	DICE SITE 23	2004-23	5/2/2005	W	Litter	8000	mL
7-21	DICE SITE 23	2004-23	5/2/2005	W	Litter	1490	g
7-21	DICE SITE 23	2004-23	5/2/2005	D	Litter	9000	mL
7-21	DICE SITE 23	2004-23	5/2/2005	W	Vegetation	30200	g
7-21	DICE SITE 23	2004-23	5/2/2005	W	Total Gross Solids	31700	g
7-21	DICE SITE 23	2004-23	5/2/2005	W	Total Gross Solids	60000	mL
7-21	DICE SITE 23	2004-23	5/2/2005	W	Vegetation	52000	mL
7-21	DICE SITE 23	2004-23	5/2/2005	D	Litter	1080	g

**Table 4.3.4 Caltrans Site ID 7-220
Gross Solids Data Summary**

Site ID	Outfall ID	Mobilization ID	Sample Date	Wet/Dry	Constituent	Reported Value	Units
7-220	DICE SITE 21	2004-01	10/25/2004	W	Litter	3980	g
7-220	DICE SITE 21	2004-01	10/25/2004	W	Total Gross Solids	75000	mL
7-220	DICE SITE 21	2004-01	10/25/2004	W	Litter	8000	mL
7-220	DICE SITE 21	2004-01	10/25/2004	D	Litter	15000	mL
7-220	DICE SITE 21	2004-01	10/25/2004	W	Total Gross Solids	73460	g
7-220	DICE SITE 21	2004-01	10/25/2004	W	Vegetation	68020	g
7-220	DICE SITE 21	2004-01	10/25/2004	W	Vegetation	70000	mL
7-220	DICE SITE 21	2004-01	10/25/2004	D	Litter	2380	g
7-220	DICE SITE 21	2004-02	10/28/2004	W	Litter	2000	mL
7-220	DICE SITE 21	2004-02	10/28/2004	D	Litter	750	g
7-220	DICE SITE 21	2004-02	10/28/2004	W	Litter	990	g
7-220	DICE SITE 21	2004-02	10/28/2004	W	Total Gross Solids	10640	g
7-220	DICE SITE 21	2004-02	10/28/2004	W	Total Gross Solids	10000	mL
7-220	DICE SITE 21	2004-02	10/28/2004	D	Litter	2000	mL
7-220	DICE SITE 21	2004-02	10/28/2004	W	Vegetation	8000	mL
7-220	DICE SITE 21	2004-02	10/28/2004	W	Vegetation	9540	g
7-220	DICE SITE 21	2004-04	11/23/2004	W	Total Gross Solids	9000	mL
7-220	DICE SITE 21	2004-04	11/23/2004	D	Litter	3000	mL
7-220	DICE SITE 21	2004-04	11/23/2004	W	Vegetation	5000	mL
7-220	DICE SITE 21	2004-04	11/23/2004	W	Litter	3000	mL
7-220	DICE SITE 21	2004-04	11/23/2004	W	Litter	440	g
7-220	DICE SITE 21	2004-04	11/23/2004	D	Litter	280	g
7-220	DICE SITE 21	2004-04	11/23/2004	W	Vegetation	3540	g
7-220	DICE SITE 21	2004-04	11/23/2004	W	Total Gross Solids	3940	g
7-220	DICE SITE 21	2004-05	12/3/2004	W	Vegetation	0	mL
7-220	DICE SITE 21	2004-05	12/3/2004	W	Litter	0	g
7-220	DICE SITE 21	2004-05	12/3/2004	W	Litter	0	mL
7-220	DICE SITE 21	2004-05	12/3/2004	W	Total Gross Solids	0	mL
7-220	DICE SITE 21	2004-05	12/3/2004	D	Litter	0	g
7-220	DICE SITE 21	2004-05	12/3/2004	W	Vegetation	0	g
7-220	DICE SITE 21	2004-05	12/3/2004	D	Litter	0	mL
7-220	DICE SITE 21	2004-05	12/3/2004	W	Total Gross Solids	0	g
7-220	DICE SITE 21	2004-06	12/7/2004	W	Litter	300	g
7-220	DICE SITE 21	2004-06	12/7/2004	D	Litter	3000	mL
7-220	DICE SITE 21	2004-06	12/7/2004	D	Litter	280	g
7-220	DICE SITE 21	2004-06	12/7/2004	W	Vegetation	16000	mL
7-220	DICE SITE 21	2004-06	12/7/2004	W	Total Gross Solids	7520	g
7-220	DICE SITE 21	2004-06	12/7/2004	W	Total Gross Solids	20000	mL
7-220	DICE SITE 21	2004-06	12/7/2004	W	Litter	3000	mL

Site ID	Outfall ID	Mobilization ID	Sample Date	Wet/Dry	Constituent	Reported Value	Units
7-220	DICE SITE 21	2004-06	12/7/2004	W	Vegetation	7180	g
7-220	DICE SITE 21	2004-08	12/22/2004	W	Litter	0	g
7-220	DICE SITE 21	2004-08	12/22/2004	W	Litter	0	mL
7-220	DICE SITE 21	2004-08	12/22/2004	D	Litter	0	g
7-220	DICE SITE 21	2004-08	12/22/2004	W	Total Gross Solids	0	g
7-220	DICE SITE 21	2004-08	12/22/2004	W	Vegetation	0	g
7-220	DICE SITE 21	2004-08	12/22/2004	W	Vegetation	0	mL
7-220	DICE SITE 21	2004-08	12/22/2004	D	Litter	0	mL
7-220	DICE SITE 21	2004-08	12/22/2004	W	Total Gross Solids	0	mL
7-220	DICE SITE 21	2004-09	12/30/2004	D	Litter	2040	g
7-220	DICE SITE 21	2004-09	12/30/2004	D	Litter	12000	mL
7-220	DICE SITE 21	2004-09	12/30/2004	W	Vegetation	35820	g
7-220	DICE SITE 21	2004-09	12/30/2004	W	Vegetation	66000	mL
7-220	DICE SITE 21	2004-09	12/30/2004	W	Litter	1220	g
7-220	DICE SITE 21	2004-09	12/30/2004	W	Total Gross Solids	37100	g
7-220	DICE SITE 21	2004-09	12/30/2004	W	Total Gross Solids	75000	mL
7-220	DICE SITE 21	2004-09	12/30/2004	W	Litter	12000	mL
7-220	DICE SITE 21	2004-10	1/5/2005	W	Vegetation	20980	g
7-220	DICE SITE 21	2004-10	1/5/2005	W	Litter	1280	g
7-220	DICE SITE 21	2004-10	1/5/2005	D	Litter	780	g
7-220	DICE SITE 21	2004-10	1/5/2005	W	Vegetation	16000	mL
7-220	DICE SITE 21	2004-10	1/5/2005	W	Litter	4000	mL
7-220	DICE SITE 21	2004-10	1/5/2005	W	Total Gross Solids	20000	mL
7-220	DICE SITE 21	2004-10	1/5/2005	D	Litter	3000	mL
7-220	DICE SITE 21	2004-10	1/5/2005	W	Total Gross Solids	22260	g
7-220	DICE SITE 21	2004-11	1/13/2005	W	Total Gross Solids	22820	g
7-220	DICE SITE 21	2004-11	1/13/2005	W	Total Gross Solids	22000	mL
7-220	DICE SITE 21	2004-11	1/13/2005	W	Litter	4000	mL
7-220	DICE SITE 21	2004-11	1/13/2005	W	Vegetation	18000	mL
7-220	DICE SITE 21	2004-11	1/13/2005	D	Litter	4000	mL
7-220	DICE SITE 21	2004-11	1/13/2005	D	Litter	2700	g
7-220	DICE SITE 21	2004-11	1/13/2005	W	Litter	2860	g
7-220	DICE SITE 21	2004-11	1/13/2005	W	Vegetation	19940	g
7-220	DICE SITE 21	2004-12	1/25/2005	W	Vegetation	0	mL
7-220	DICE SITE 21	2004-12	1/25/2005	W	Vegetation	0	g
7-220	DICE SITE 21	2004-12	1/25/2005	W	Litter	0	g
7-220	DICE SITE 21	2004-12	1/25/2005	W	Total Gross Solids	0	g
7-220	DICE SITE 21	2004-12	1/25/2005	W	Total Gross Solids	0	mL
7-220	DICE SITE 21	2004-12	1/25/2005	D	Litter	0	mL
7-220	DICE SITE 21	2004-12	1/25/2005	W	Litter	0	mL
7-220	DICE SITE 21	2004-12	1/25/2005	D	Litter	0	g
7-220	DICE SITE 21	2004-13	2/1/2005	W	Litter	440	g

Site ID	Outfall ID	Mobilization ID	Sample Date	Wet/Dry	Constituent	Reported Value	Units
7-220	DICE SITE 21	2004-13	2/1/2005	W	Total Gross Solids	5720	g
7-220	DICE SITE 21	2004-13	2/1/2005	D	Litter	420	g
7-220	DICE SITE 21	2004-13	2/1/2005	D	Litter	4000	mL
7-220	DICE SITE 21	2004-13	2/1/2005	W	Vegetation	16000	mL
7-220	DICE SITE 21	2004-13	2/1/2005	W	Vegetation	5280	g
7-220	DICE SITE 21	2004-13	2/1/2005	W	Litter	4000	mL
7-220	DICE SITE 21	2004-13	2/1/2005	W	Total Gross Solids	20000	mL
7-220	DICE SITE 21	2004-15	2/14/2005	D	Litter	780	g
7-220	DICE SITE 21	2004-15	2/14/2005	W	Total Gross Solids	30000	mL
7-220	DICE SITE 21	2004-15	2/14/2005	W	Litter	5000	mL
7-220	DICE SITE 21	2004-15	2/14/2005	D	Litter	4000	mL
7-220	DICE SITE 21	2004-15	2/14/2005	W	Vegetation	25000	mL
7-220	DICE SITE 21	2004-15	2/14/2005	W	Total Gross Solids	12900	g
7-220	DICE SITE 21	2004-15	2/14/2005	W	Litter	1030	g
7-220	DICE SITE 21	2004-15	2/14/2005	W	Vegetation	11870	g
7-220	DICE SITE 21	2004-16	2/25/2005	W	Litter	3000	mL
7-220	DICE SITE 21	2004-16	2/25/2005	W	Litter	1250	g
7-220	DICE SITE 21	2004-16	2/25/2005	W	Total Gross Solids	25180	g
7-220	DICE SITE 21	2004-16	2/25/2005	W	Total Gross Solids	33000	mL
7-220	DICE SITE 21	2004-16	2/25/2005	D	Litter	540	g
7-220	DICE SITE 21	2004-16	2/25/2005	D	Litter	3000	mL
7-220	DICE SITE 21	2004-16	2/25/2005	W	Vegetation	30000	mL
7-220	DICE SITE 21	2004-16	2/25/2005	W	Vegetation	23920	g
7-220	DICE SITE 21	2004-17	3/10/2005	W	Vegetation	10040	g
7-220	DICE SITE 21	2004-17	3/10/2005	W	Litter	740	g
7-220	DICE SITE 21	2004-17	3/10/2005	W	Total Gross Solids	10780	g
7-220	DICE SITE 21	2004-17	3/10/2005	D	Litter	720	g
7-220	DICE SITE 21	2004-17	3/10/2005	D	Litter	3000	mL
7-220	DICE SITE 21	2004-17	3/10/2005	W	Vegetation	9000	mL
7-220	DICE SITE 21	2004-17	3/10/2005	W	Total Gross Solids	12000	mL
7-220	DICE SITE 21	2004-17	3/10/2005	W	Litter	3000	mL
7-220	DICE SITE 21	2004-18	3/18/2005	W	Litter	0	g
7-220	DICE SITE 21	2004-18	3/18/2005	D	Litter	0	mL
7-220	DICE SITE 21	2004-18	3/18/2005	W	Vegetation	0	g
7-220	DICE SITE 21	2004-18	3/18/2005	D	Litter	0	g
7-220	DICE SITE 21	2004-18	3/18/2005	W	Total Gross Solids	0	g
7-220	DICE SITE 21	2004-18	3/18/2005	W	Vegetation	0	mL
7-220	DICE SITE 21	2004-18	3/18/2005	W	Litter	0	mL
7-220	DICE SITE 21	2004-18	3/18/2005	W	Total Gross Solids	0	mL
7-220	DICE SITE 21	2004-19	3/21/2005	W	Litter	0	mL
7-220	DICE SITE 21	2004-19	3/21/2005	W	Vegetation	0	mL
7-220	DICE SITE 21	2004-19	3/21/2005	D	Litter	0	mL

Site ID	Outfall ID	Mobilization ID	Sample Date	Wet/Dry	Constituent	Reported Value	Units
7-220	DICE SITE 21	2004-19	3/21/2005	D	Litter	0	g
7-220	DICE SITE 21	2004-19	3/21/2005	W	Vegetation	0	g
7-220	DICE SITE 21	2004-19	3/21/2005	W	Litter	0	g
7-220	DICE SITE 21	2004-19	3/21/2005	W	Total Gross Solids	0	g
7-220	DICE SITE 21	2004-19	3/21/2005	W	Total Gross Solids	0	mL
7-220	DICE SITE 21	2004-20	4/1/2005	W	Total Gross Solids	28000	mL
7-220	DICE SITE 21	2004-20	4/1/2005	W	Litter	5000	mL
7-220	DICE SITE 21	2004-20	4/1/2005	W	Litter	1600	g
7-220	DICE SITE 21	2004-20	4/1/2005	W	Vegetation	25000	mL
7-220	DICE SITE 21	2004-20	4/1/2005	D	Litter	6000	mL
7-220	DICE SITE 21	2004-20	4/1/2005	D	Litter	1140	g
7-220	DICE SITE 21	2004-20	4/1/2005	W	Vegetation	21480	g
7-220	DICE SITE 21	2004-20	4/1/2005	W	Total Gross Solids	23120	g
7-220	DICE SITE 21	2004-22	4/21/2005	D	Litter	0	g
7-220	DICE SITE 21	2004-22	4/21/2005	D	Litter	0	mL
7-220	DICE SITE 21	2004-22	4/21/2005	W	Litter	0	mL
7-220	DICE SITE 21	2004-22	4/21/2005	W	Vegetation	0	g
7-220	DICE SITE 21	2004-22	4/21/2005	W	Litter	0	g
7-220	DICE SITE 21	2004-22	4/21/2005	W	Total Gross Solids	0	g
7-220	DICE SITE 21	2004-22	4/21/2005	W	Vegetation	0	mL
7-220	DICE SITE 21	2004-22	4/21/2005	W	Total Gross Solids	0	mL
7-220	DICE SITE 21	2004-23	5/2/2005	W	Total Gross Solids	25540	g
7-220	DICE SITE 21	2004-23	5/2/2005	W	Vegetation	22940	g
7-220	DICE SITE 21	2004-23	5/2/2005	W	Litter	10000	mL
7-220	DICE SITE 21	2004-23	5/2/2005	D	Litter	1240	g
7-220	DICE SITE 21	2004-23	5/2/2005	W	Vegetation	56000	mL
7-220	DICE SITE 21	2004-23	5/2/2005	W	Total Gross Solids	66000	mL
7-220	DICE SITE 21	2004-23	5/2/2005	W	Litter	2600	g
7-220	DICE SITE 21	2004-23	5/2/2005	D	Litter	12000	mL

**Table 4.3.5 Caltrans Site ID 7-221
Gross Solids Data Summary**

Site ID	Outfall ID	Mobilization ID	Sample Date	Wet/Dry	Constituent	Reported Value	Units
7-221	DICE SITE 22	2004-01	10/25/2004	D	Litter	9340	g
7-221	DICE SITE 22	2004-01	10/25/2004	D	Litter	45000	mL
7-221	DICE SITE 22	2004-01	10/25/2004	W	Total Gross Solids	152000	mL
7-221	DICE SITE 22	2004-01	10/25/2004	W	Litter	54000	mL
7-221	DICE SITE 22	2004-01	10/25/2004	W	Vegetation	102000	mL
7-221	DICE SITE 22	2004-01	10/25/2004	W	Total Gross Solids	77900	g
7-221	DICE SITE 22	2004-01	10/25/2004	W	Litter	11340	g
7-221	DICE SITE 22	2004-01	10/25/2004	W	Vegetation	64800	g
7-221	DICE SITE 22	2004-02	10/28/2004	W	Total Gross Solids	69000	mL
7-221	DICE SITE 22	2004-02	10/28/2004	W	Litter	8000	g
7-221	DICE SITE 22	2004-02	10/28/2004	W	Vegetation	46000	mL
7-221	DICE SITE 22	2004-02	10/28/2004	W	Total Gross Solids	89280	g
7-221	DICE SITE 22	2004-02	10/28/2004	W	Litter	23000	mL
7-221	DICE SITE 22	2004-02	10/28/2004	W	Vegetation	81280	g
7-221	DICE SITE 22	2004-02	10/28/2004	D	Litter	7220	g
7-221	DICE SITE 22	2004-02	10/28/2004	D	Litter	22000	mL
7-221	DICE SITE 22	2004-04	11/23/2004	D	Litter	500	g
7-221	DICE SITE 22	2004-04	11/23/2004	D	Litter	8000	mL
7-221	DICE SITE 22	2004-04	11/23/2004	W	Total Gross Solids	20000	mL
7-221	DICE SITE 22	2004-04	11/23/2004	W	Litter	7000	mL
7-221	DICE SITE 22	2004-04	11/23/2004	W	Vegetation	16000	mL
7-221	DICE SITE 22	2004-04	11/23/2004	W	Total Gross Solids	5900	g
7-221	DICE SITE 22	2004-04	11/23/2004	W	Litter	700	g
7-221	DICE SITE 22	2004-04	11/23/2004	W	Vegetation	5200	g
7-221	DICE SITE 22	2004-05	12/3/2004	W	Litter	0	g
7-221	DICE SITE 22	2004-05	12/3/2004	W	Litter	0	mL
7-221	DICE SITE 22	2004-05	12/3/2004	W	Vegetation	0	mL
7-221	DICE SITE 22	2004-05	12/3/2004	D	Litter	0	g
7-221	DICE SITE 22	2004-05	12/3/2004	W	Total Gross Solids	0	g
7-221	DICE SITE 22	2004-05	12/3/2004	W	Total Gross Solids	0	mL
7-221	DICE SITE 22	2004-05	12/3/2004	D	Litter	0	mL
7-221	DICE SITE 22	2004-05	12/3/2004	W	Vegetation	0	g
7-221	DICE SITE 22	2004-06	12/7/2004	W	Total Gross Solids	35000	mL
7-221	DICE SITE 22	2004-06	12/7/2004	D	Litter	10000	mL
7-221	DICE SITE 22	2004-06	12/7/2004	W	Litter	10000	mL
7-221	DICE SITE 22	2004-06	12/7/2004	W	Vegetation	25000	mL
7-221	DICE SITE 22	2004-06	12/7/2004	W	Total Gross Solids	11640	g
7-221	DICE SITE 22	2004-06	12/7/2004	W	Litter	1640	g
7-221	DICE SITE 22	2004-06	12/7/2004	W	Vegetation	9860	g
7-221	DICE SITE 22	2004-06	12/7/2004	D	Litter	1620	g
7-221	DICE SITE 22	2004-08	12/22/2004	W	Litter	0	g

Site ID	Outfall ID	Mobilization ID	Sample Date	Wet/Dry	Constituent	Reported Value	Units
7-221	DICE SITE 22	2004-08	12/22/2004	W	Vegetation	0	mL
7-221	DICE SITE 22	2004-08	12/22/2004	W	Total Gross Solids	0	g
7-221	DICE SITE 22	2004-08	12/22/2004	D	Litter	0	g
7-221	DICE SITE 22	2004-08	12/22/2004	W	Vegetation	0	g
7-221	DICE SITE 22	2004-08	12/22/2004	D	Litter	0	mL
7-221	DICE SITE 22	2004-08	12/22/2004	W	Total Gross Solids	0	mL
7-221	DICE SITE 22	2004-08	12/22/2004	W	Litter	0	mL
7-221	DICE SITE 22	2004-09	12/30/2004	W	Litter	30000	mL
7-221	DICE SITE 22	2004-09	12/30/2004	W	Litter	5960	g
7-221	DICE SITE 22	2004-09	12/30/2004	W	Total Gross Solids	39660	g
7-221	DICE SITE 22	2004-09	12/30/2004	D	Litter	5300	g
7-221	DICE SITE 22	2004-09	12/30/2004	D	Litter	30000	mL
7-221	DICE SITE 22	2004-09	12/30/2004	W	Vegetation	32780	g
7-221	DICE SITE 22	2004-09	12/30/2004	W	Vegetation	65000	mL
7-221	DICE SITE 22	2004-09	12/30/2004	W	Total Gross Solids	85000	mL
7-221	DICE SITE 22	2004-10	1/5/2005	W	Vegetation	50000	mL
7-221	DICE SITE 22	2004-10	1/5/2005	D	Litter	11000	mL
7-221	DICE SITE 22	2004-10	1/5/2005	W	Litter	12000	mL
7-221	DICE SITE 22	2004-10	1/5/2005	W	Total Gross Solids	59000	mL
7-221	DICE SITE 22	2004-10	1/5/2005	W	Litter	2960	g
7-221	DICE SITE 22	2004-10	1/5/2005	W	Vegetation	56640	g
7-221	DICE SITE 22	2004-10	1/5/2005	D	Litter	2600	g
7-221	DICE SITE 22	2004-10	1/5/2005	W	Total Gross Solids	62800	g
7-221	DICE SITE 22	2004-11	1/13/2005	W	Vegetation	5180	g
7-221	DICE SITE 22	2004-11	1/13/2005	W	Litter	1920	g
7-221	DICE SITE 22	2004-11	1/13/2005	D	Litter	10000	mL
7-221	DICE SITE 22	2004-11	1/13/2005	D	Litter	1220	g
7-221	DICE SITE 22	2004-11	1/13/2005	W	Total Gross Solids	7100	g
7-221	DICE SITE 22	2004-11	1/13/2005	W	Total Gross Solids	25000	mL
7-221	DICE SITE 22	2004-11	1/13/2005	W	Litter	10000	mL
7-221	DICE SITE 22	2004-11	1/13/2005	W	Vegetation	15000	mL
7-221	DICE SITE 22	2004-12	1/25/2005	D	Litter	0	mL
7-221	DICE SITE 22	2004-12	1/25/2005	W	Total Gross Solids	0	mL
7-221	DICE SITE 22	2004-12	1/25/2005	W	Litter	0	mL
7-221	DICE SITE 22	2004-12	1/25/2005	W	Vegetation	0	mL
7-221	DICE SITE 22	2004-12	1/25/2005	W	Total Gross Solids	0	g
7-221	DICE SITE 22	2004-12	1/25/2005	D	Litter	0	g
7-221	DICE SITE 22	2004-12	1/25/2005	W	Litter	0	g
7-221	DICE SITE 22	2004-12	1/25/2005	W	Vegetation	0	g
7-221	DICE SITE 22	2004-13	2/1/2005	D	Litter	0	mL
7-221	DICE SITE 22	2004-13	2/1/2005	D	Litter	0	g
7-221	DICE SITE 22	2004-13	2/1/2005	W	Total Gross Solids	0	mL
7-221	DICE SITE 22	2004-13	2/1/2005	W	Litter	0	mL
7-221	DICE SITE 22	2004-13	2/1/2005	W	Vegetation	0	mL

Site ID	Outfall ID	Mobilization ID	Sample Date	Wet/Dry	Constituent	Reported Value	Units
7-221	DICE SITE 22	2004-13	2/1/2005	W	Vegetation	0	g
7-221	DICE SITE 22	2004-13	2/1/2005	W	Litter	0	g
7-221	DICE SITE 22	2004-13	2/1/2005	W	Total Gross Solids	0	g
7-221	DICE SITE 22	2004-15	2/14/2005	W	Total Gross Solids	59000	mL
7-221	DICE SITE 22	2004-15	2/14/2005	W	Litter	3540	g
7-221	DICE SITE 22	2004-15	2/14/2005	W	Vegetation	45000	mL
7-221	DICE SITE 22	2004-15	2/14/2005	W	Vegetation	28320	g
7-221	DICE SITE 22	2004-15	2/14/2005	W	Total Gross Solids	31860	g
7-221	DICE SITE 22	2004-15	2/14/2005	D	Litter	5500	g
7-221	DICE SITE 22	2004-15	2/14/2005	W	Litter	14000	mL
7-221	DICE SITE 22	2004-15	2/14/2005	D	Litter	30000	mL
7-221	DICE SITE 22	2004-16	2/25/2005	W	Litter	7940	g
7-221	DICE SITE 22	2004-16	2/25/2005	W	Total Gross Solids	50360	g
7-221	DICE SITE 22	2004-16	2/25/2005	W	Vegetation	31000	mL
7-221	DICE SITE 22	2004-16	2/25/2005	W	Litter	30000	mL
7-221	DICE SITE 22	2004-16	2/25/2005	W	Total Gross Solids	61000	mL
7-221	DICE SITE 22	2004-16	2/25/2005	D	Litter	31000	mL
7-221	DICE SITE 22	2004-16	2/25/2005	D	Litter	5440	g
7-221	DICE SITE 22	2004-16	2/25/2005	W	Vegetation	42420	g
7-221	DICE SITE 22	2004-17	3/10/2005	D	Litter	8000	mL
7-221	DICE SITE 22	2004-17	3/10/2005	D	Litter	1080	g
7-221	DICE SITE 22	2004-17	3/10/2005	W	Vegetation	13580	g
7-221	DICE SITE 22	2004-17	3/10/2005	W	Total Gross Solids	23000	mL
7-221	DICE SITE 22	2004-17	3/10/2005	W	Litter	12000	mL
7-221	DICE SITE 22	2004-17	3/10/2005	W	Litter	2680	g
7-221	DICE SITE 22	2004-17	3/10/2005	W	Vegetation	11000	mL
7-221	DICE SITE 22	2004-17	3/10/2005	W	Total Gross Solids	16260	g
7-221	DICE SITE 22	2004-18	3/18/2005	W	Total Gross Solids	0	mL
7-221	DICE SITE 22	2004-18	3/18/2005	W	Vegetation	0	g
7-221	DICE SITE 22	2004-18	3/18/2005	W	Litter	0	g
7-221	DICE SITE 22	2004-18	3/18/2005	W	Litter	0	mL
7-221	DICE SITE 22	2004-18	3/18/2005	W	Vegetation	0	mL
7-221	DICE SITE 22	2004-18	3/18/2005	D	Litter	0	mL
7-221	DICE SITE 22	2004-18	3/18/2005	W	Total Gross Solids	0	g
7-221	DICE SITE 22	2004-18	3/18/2005	D	Litter	0	g
7-221	DICE SITE 22	2004-19	3/21/2005	D	Litter	0	g
7-221	DICE SITE 22	2004-19	3/21/2005	W	Vegetation	0	g
7-221	DICE SITE 22	2004-19	3/21/2005	W	Total Gross Solids	0	mL
7-221	DICE SITE 22	2004-19	3/21/2005	W	Litter	0	mL
7-221	DICE SITE 22	2004-19	3/21/2005	W	Vegetation	0	mL
7-221	DICE SITE 22	2004-19	3/21/2005	W	Total Gross Solids	0	g
7-221	DICE SITE 22	2004-19	3/21/2005	W	Litter	0	g
7-221	DICE SITE 22	2004-19	3/21/2005	D	Litter	0	mL
7-221	DICE SITE 22	2004-20	4/1/2005	W	Litter	3910	g

Site ID	Outfall ID	Mobilization ID	Sample Date	Wet/Dry	Constituent	Reported Value	Units
7-221	DICE SITE 22	2004-20	4/1/2005	D	Litter	20000	mL
7-221	DICE SITE 22	2004-20	4/1/2005	W	Total Gross Solids	60000	mL
7-221	DICE SITE 22	2004-20	4/1/2005	W	Litter	25000	mL
7-221	DICE SITE 22	2004-20	4/1/2005	W	Total Gross Solids	29280	g
7-221	DICE SITE 22	2004-20	4/1/2005	W	Vegetation	25440	g
7-221	DICE SITE 22	2004-20	4/1/2005	D	Litter	3260	g
7-221	DICE SITE 22	2004-20	4/1/2005	W	Vegetation	35000	mL
7-221	DICE SITE 22	2004-22	4/21/2005	W	Vegetation	0	g
7-221	DICE SITE 22	2004-22	4/21/2005	W	Total Gross Solids	0	mL
7-221	DICE SITE 22	2004-22	4/21/2005	W	Litter	0	g
7-221	DICE SITE 22	2004-22	4/21/2005	W	Litter	0	mL
7-221	DICE SITE 22	2004-22	4/21/2005	D	Litter	0	mL
7-221	DICE SITE 22	2004-22	4/21/2005	W	Total Gross Solids	0	g
7-221	DICE SITE 22	2004-22	4/21/2005	W	Vegetation	0	mL
7-221	DICE SITE 22	2004-22	4/21/2005	D	Litter	0	g
7-221	DICE SITE 22	2004-23	5/2/2005	W	Total Gross Solids	65000	mL
7-221	DICE SITE 22	2004-23	5/2/2005	D	Litter	4680	g
7-221	DICE SITE 22	2004-23	5/2/2005	W	Vegetation	23120	g
7-221	DICE SITE 22	2004-23	5/2/2005	W	Litter	5360	g
7-221	DICE SITE 22	2004-23	5/2/2005	D	Litter	24000	mL
7-221	DICE SITE 22	2004-23	5/2/2005	W	Litter	20000	mL
7-221	DICE SITE 22	2004-23	5/2/2005	W	Vegetation	45000	mL
7-221	DICE SITE 22	2004-23	5/2/2005	W	Total Gross Solids	28480	g

**Table 4.3.6 Caltrans Site ID 7-222
Gross Solids Data Summary**

Site ID	Outfall ID	Mobilization ID	Sample Date	Wet/Dry	Constituent	Reported Value	Units
7-222	DICE SITE 24	2004-01	10/25/2004	D	Litter	122000	mL
7-222	DICE SITE 24	2004-01	10/25/2004	W	Vegetation	61540	g
7-222	DICE SITE 24	2004-01	10/25/2004	W	Vegetation	124000	mL
7-222	DICE SITE 24	2004-01	10/25/2004	W	Total Gross Solids	88520	g
7-222	DICE SITE 24	2004-01	10/25/2004	W	Litter	23480	g
7-222	DICE SITE 24	2004-01	10/25/2004	D	Litter	23920	g
7-222	DICE SITE 24	2004-01	10/25/2004	W	Litter	137000	mL
7-222	DICE SITE 24	2004-01	10/25/2004	W	Total Gross Solids	264000	mL
7-222	DICE SITE 24	2004-03	11/1/2004	W	Total Gross Solids	95000	mL
7-222	DICE SITE 24	2004-03	11/1/2004	W	Vegetation	31960	g
7-222	DICE SITE 24	2004-03	11/1/2004	W	Litter	8200	g
7-222	DICE SITE 24	2004-03	11/1/2004	W	Vegetation	48000	mL
7-222	DICE SITE 24	2004-03	11/1/2004	D	Litter	55000	mL
7-222	DICE SITE 24	2004-03	11/1/2004	W	Litter	51000	mL
7-222	DICE SITE 24	2004-03	11/1/2004	W	Total Gross Solids	41040	g
7-222	DICE SITE 24	2004-03	11/1/2004	D	Litter	7320	g
7-222	DICE SITE 24	2004-04	11/23/2004	D	Litter	4320	g
7-222	DICE SITE 24	2004-04	11/23/2004	W	Total Gross Solids	60000	mL
7-222	DICE SITE 24	2004-04	11/23/2004	W	Litter	4880	g
7-222	DICE SITE 24	2004-04	11/23/2004	W	Total Gross Solids	16420	g
7-222	DICE SITE 24	2004-04	11/23/2004	D	Litter	32000	mL
7-222	DICE SITE 24	2004-04	11/23/2004	W	Vegetation	31000	mL
7-222	DICE SITE 24	2004-04	11/23/2004	W	Litter	30000	mL
7-222	DICE SITE 24	2004-04	11/23/2004	W	Vegetation	11480	g
7-222	DICE SITE 24	2004-05	12/3/2004	W	Total Gross Solids	0	mL
7-222	DICE SITE 24	2004-05	12/3/2004	D	Litter	0	mL
7-222	DICE SITE 24	2004-05	12/3/2004	W	Vegetation	0	g
7-222	DICE SITE 24	2004-05	12/3/2004	W	Litter	0	mL
7-222	DICE SITE 24	2004-05	12/3/2004	D	Litter	0	g
7-222	DICE SITE 24	2004-05	12/3/2004	W	Total Gross Solids	0	g
7-222	DICE SITE 24	2004-05	12/3/2004	W	Litter	0	g
7-222	DICE SITE 24	2004-05	12/3/2004	W	Vegetation	0	mL
7-222	DICE SITE 24	2004-06	12/7/2004	W	Litter	4000	mL
7-222	DICE SITE 24	2004-06	12/7/2004	W	Vegetation	5700	g
7-222	DICE SITE 24	2004-06	12/7/2004	W	Litter	980	g
7-222	DICE SITE 24	2004-06	12/7/2004	W	Vegetation	2000	mL
7-222	DICE SITE 24	2004-06	12/7/2004	W	Total Gross Solids	6000	mL
7-222	DICE SITE 24	2004-06	12/7/2004	D	Litter	4000	mL
7-222	DICE SITE 24	2004-06	12/7/2004	D	Litter	960	g
7-222	DICE SITE 24	2004-06	12/7/2004	W	Total Gross Solids	6680	g
7-222	DICE SITE 24	2004-07	12/17/2004	W	Total Gross Solids	35000	mL

Site ID	Outfall ID	Mobilization ID	Sample Date	Wet/Dry	Constituent	Reported Value	Units
7-222	DICE SITE 24	2004-07	12/17/2004	W	Total Gross Solids	27216	g
7-222	DICE SITE 24	2004-08	12/22/2004	D	Litter	0	g
7-222	DICE SITE 24	2004-08	12/22/2004	W	Vegetation	0	g
7-222	DICE SITE 24	2004-08	12/22/2004	D	Litter	0	mL
7-222	DICE SITE 24	2004-08	12/22/2004	W	Total Gross Solids	0	mL
7-222	DICE SITE 24	2004-08	12/22/2004	W	Vegetation	0	mL
7-222	DICE SITE 24	2004-08	12/22/2004	W	Total Gross Solids	0	g
7-222	DICE SITE 24	2004-08	12/22/2004	W	Litter	0	mL
7-222	DICE SITE 24	2004-08	12/22/2004	W	Litter	0	g
7-222	DICE SITE 24	2004-09	12/30/2004	W	Litter	0	mL
7-222	DICE SITE 24	2004-09	12/30/2004	W	Total Gross Solids	0	g
7-222	DICE SITE 24	2004-09	12/30/2004	W	Vegetation	0	mL
7-222	DICE SITE 24	2004-09	12/30/2004	W	Vegetation	0	g
7-222	DICE SITE 24	2004-09	12/30/2004	D	Litter	0	g
7-222	DICE SITE 24	2004-09	12/30/2004	W	Total Gross Solids	0	mL
7-222	DICE SITE 24	2004-09	12/30/2004	D	Litter	0	mL
7-222	DICE SITE 24	2004-09	12/30/2004	W	Litter	0	g
7-222	DICE SITE 24	2004-10	1/5/2005	W	Litter	50000	mL
7-222	DICE SITE 24	2004-10	1/5/2005	W	Vegetation	77000	mL
7-222	DICE SITE 24	2004-10	1/5/2005	W	Total Gross Solids	53140	g
7-222	DICE SITE 24	2004-10	1/5/2005	W	Litter	10600	g
7-222	DICE SITE 24	2004-10	1/5/2005	D	Litter	53000	mL
7-222	DICE SITE 24	2004-10	1/5/2005	D	Litter	9740	g
7-222	DICE SITE 24	2004-10	1/5/2005	W	Total Gross Solids	121000	mL
7-222	DICE SITE 24	2004-10	1/5/2005	W	Vegetation	41740	g
7-222	DICE SITE 24	2004-11	1/13/2005	D	Litter	3900	g
7-222	DICE SITE 24	2004-11	1/13/2005	D	Litter	15000	mL
7-222	DICE SITE 24	2004-11	1/13/2005	W	Total Gross Solids	66000	mL
7-222	DICE SITE 24	2004-11	1/13/2005	W	Litter	14000	mL
7-222	DICE SITE 24	2004-11	1/13/2005	W	Vegetation	46000	mL
7-222	DICE SITE 24	2004-11	1/13/2005	W	Total Gross Solids	66140	g
7-222	DICE SITE 24	2004-11	1/13/2005	W	Litter	7800	g
7-222	DICE SITE 24	2004-11	1/13/2005	W	Vegetation	58320	g
7-222	DICE SITE 24	2004-12	1/25/2005	D	Litter	0	mL
7-222	DICE SITE 24	2004-12	1/25/2005	W	Litter	0	mL
7-222	DICE SITE 24	2004-12	1/25/2005	D	Litter	0	g
7-222	DICE SITE 24	2004-12	1/25/2005	W	Total Gross Solids	0	mL
7-222	DICE SITE 24	2004-12	1/25/2005	W	Vegetation	0	mL
7-222	DICE SITE 24	2004-12	1/25/2005	W	Total Gross Solids	0	g
7-222	DICE SITE 24	2004-12	1/25/2005	W	Litter	0	g
7-222	DICE SITE 24	2004-12	1/25/2005	W	Vegetation	0	g
7-222	DICE SITE 24	2004-13	2/1/2005	W	Total Gross Solids	25000	mL
7-222	DICE SITE 24	2004-13	2/1/2005	D	Litter	14000	mL
7-222	DICE SITE 24	2004-13	2/1/2005	W	Litter	14000	mL

Site ID	Outfall ID	Mobilization ID	Sample Date	Wet/Dry	Constituent	Reported Value	Units
7-222	DICE SITE 24	2004-13	2/1/2005	W	Vegetation	11000	mL
7-222	DICE SITE 24	2004-13	2/1/2005	W	Total Gross Solids	11880	g
7-222	DICE SITE 24	2004-13	2/1/2005	W	Litter	1540	g
7-222	DICE SITE 24	2004-13	2/1/2005	W	Vegetation	10340	g
7-222	DICE SITE 24	2004-13	2/1/2005	D	Litter	1440	g
7-222	DICE SITE 24	2004-14	2/4/2005	W	Total Gross Solids	14000	mL
7-222	DICE SITE 24	2004-14	2/4/2005	W	Total Gross Solids	22680	g
7-222	DICE SITE 24	2004-15	2/14/2005	W	Total Gross Solids	21220	g
7-222	DICE SITE 24	2004-15	2/14/2005	W	Litter	5720	g
7-222	DICE SITE 24	2004-15	2/14/2005	W	Litter	27000	mL
7-222	DICE SITE 24	2004-15	2/14/2005	W	Vegetation	15500	g
7-222	DICE SITE 24	2004-15	2/14/2005	W	Total Gross Solids	50000	mL
7-222	DICE SITE 24	2004-15	2/14/2005	D	Litter	5160	g
7-222	DICE SITE 24	2004-15	2/14/2005	D	Litter	30000	mL
7-222	DICE SITE 24	2004-15	2/14/2005	W	Vegetation	23000	mL
7-222	DICE SITE 24	2004-16	2/25/2005	D	Litter	0	g
7-222	DICE SITE 24	2004-16	2/25/2005	W	Vegetation	0	mL
7-222	DICE SITE 24	2004-16	2/25/2005	W	Litter	0	mL
7-222	DICE SITE 24	2004-16	2/25/2005	W	Total Gross Solids	0	mL
7-222	DICE SITE 24	2004-16	2/25/2005	D	Litter	0	mL
7-222	DICE SITE 24	2004-16	2/25/2005	W	Litter	0	g
7-222	DICE SITE 24	2004-16	2/25/2005	W	Vegetation	0	g
7-222	DICE SITE 24	2004-16	2/25/2005	W	Total Gross Solids	0	g
7-222	DICE SITE 24	2004-17	3/10/2005	W	Total Gross Solids	26960	g
7-222	DICE SITE 24	2004-17	3/10/2005	D	Litter	6020	g
7-222	DICE SITE 24	2004-17	3/10/2005	D	Litter	25000	mL
7-222	DICE SITE 24	2004-17	3/10/2005	W	Total Gross Solids	62000	mL
7-222	DICE SITE 24	2004-17	3/10/2005	W	Litter	27000	mL
7-222	DICE SITE 24	2004-17	3/10/2005	W	Vegetation	35000	mL
7-222	DICE SITE 24	2004-17	3/10/2005	W	Vegetation	20420	g
7-222	DICE SITE 24	2004-17	3/10/2005	W	Litter	6540	g
7-222	DICE SITE 24	2004-18	3/18/2005	W	Vegetation	0	g
7-222	DICE SITE 24	2004-18	3/18/2005	W	Litter	0	g
7-222	DICE SITE 24	2004-18	3/18/2005	D	Litter	0	g
7-222	DICE SITE 24	2004-18	3/18/2005	D	Litter	0	mL
7-222	DICE SITE 24	2004-18	3/18/2005	W	Total Gross Solids	0	mL
7-222	DICE SITE 24	2004-18	3/18/2005	W	Litter	0	mL
7-222	DICE SITE 24	2004-18	3/18/2005	W	Vegetation	0	mL
7-222	DICE SITE 24	2004-18	3/18/2005	W	Total Gross Solids	0	g
7-222	DICE SITE 24	2004-19	3/21/2005	W	Litter	0	mL
7-222	DICE SITE 24	2004-19	3/21/2005	W	Vegetation	0	g
7-222	DICE SITE 24	2004-19	3/21/2005	W	Total Gross Solids	0	mL
7-222	DICE SITE 24	2004-19	3/21/2005	D	Litter	0	mL
7-222	DICE SITE 24	2004-19	3/21/2005	D	Litter	0	g

Site ID	Outfall ID	Mobilization ID	Sample Date	Wet/Dry	Constituent	Reported Value	Units
7-222	DICE SITE 24	2004-19	3/21/2005	W	Total Gross Solids	0	g
7-222	DICE SITE 24	2004-19	3/21/2005	W	Vegetation	0	mL
7-222	DICE SITE 24	2004-19	3/21/2005	W	Litter	0	g
7-222	DICE SITE 24	2004-20	4/1/2005	D	Litter	5400	g
7-222	DICE SITE 24	2004-20	4/1/2005	W	Total Gross Solids	111000	mL
7-222	DICE SITE 24	2004-20	4/1/2005	W	Litter	59000	mL
7-222	DICE SITE 24	2004-20	4/1/2005	W	Vegetation	55000	mL
7-222	DICE SITE 24	2004-20	4/1/2005	W	Total Gross Solids	24320	g
7-222	DICE SITE 24	2004-20	4/1/2005	W	Litter	5420	g
7-222	DICE SITE 24	2004-20	4/1/2005	W	Vegetation	18720	g
7-222	DICE SITE 24	2004-20	4/1/2005	D	Litter	62000	mL
7-222	DICE SITE 24	2004-21	4/9/2005	W	Total Gross Solids	3500	mL
7-222	DICE SITE 24	2004-21	4/9/2005	W	Total Gross Solids	45359	g
7-222	DICE SITE 24	2004-22	4/21/2005	W	Litter	0	mL
7-222	DICE SITE 24	2004-22	4/21/2005	D	Litter	0	g
7-222	DICE SITE 24	2004-22	4/21/2005	D	Litter	0	mL
7-222	DICE SITE 24	2004-22	4/21/2005	W	Total Gross Solids	0	mL
7-222	DICE SITE 24	2004-22	4/21/2005	W	Vegetation	0	mL
7-222	DICE SITE 24	2004-22	4/21/2005	W	Litter	0	g
7-222	DICE SITE 24	2004-22	4/21/2005	W	Vegetation	0	g
7-222	DICE SITE 24	2004-22	4/21/2005	W	Total Gross Solids	0	g
7-222	DICE SITE 24	2004-23	5/2/2005	W	Total Gross Solids	152000	mL
7-222	DICE SITE 24	2004-23	5/2/2005	D	Litter	78000	mL
7-222	DICE SITE 24	2004-23	5/2/2005	D	Litter	10480	g
7-222	DICE SITE 24	2004-23	5/2/2005	W	Vegetation	40460	g
7-222	DICE SITE 24	2004-23	5/2/2005	W	Litter	11560	g
7-222	DICE SITE 24	2004-23	5/2/2005	W	Total Gross Solids	52020	g
7-222	DICE SITE 24	2004-23	5/2/2005	W	Vegetation	75000	mL
7-222	DICE SITE 24	2004-23	5/2/2005	W	Litter	77000	mL

**Table 4.3.7 Caltrans Site ID 7-223
Gross Solids Data Summary**

Site ID	Outfall ID	Mobilization ID	Sample Date	Wet/Dry	Constituent	Reported Value	Units
7-223	DICE SITE 28	2004-01	10/25/2004	W	Vegetation	115000	mL
7-223	DICE SITE 28	2004-01	10/25/2004	W	Total Gross Solids	104100	g
7-223	DICE SITE 28	2004-01	10/25/2004	W	Total Gross Solids	145000	mL
7-223	DICE SITE 28	2004-01	10/25/2004	W	Vegetation	92020	g
7-223	DICE SITE 28	2004-01	10/25/2004	W	Litter	8470	g
7-223	DICE SITE 28	2004-01	10/25/2004	D	Litter	25000	mL
7-223	DICE SITE 28	2004-01	10/25/2004	D	Litter	7520	g
7-223	DICE SITE 28	2004-01	10/25/2004	W	Litter	33000	mL
7-223	DICE SITE 28	2004-02	10/28/2004	D	Litter	1000	mL
7-223	DICE SITE 28	2004-02	10/28/2004	D	Litter	240	g
7-223	DICE SITE 28	2004-02	10/28/2004	W	Total Gross Solids	33000	mL
7-223	DICE SITE 28	2004-02	10/28/2004	W	Litter	1000	mL
7-223	DICE SITE 28	2004-02	10/28/2004	W	Vegetation	32000	mL
7-223	DICE SITE 28	2004-02	10/28/2004	W	Total Gross Solids	53640	g
7-223	DICE SITE 28	2004-02	10/28/2004	W	Litter	320	g
7-223	DICE SITE 28	2004-02	10/28/2004	W	Vegetation	53140	g
7-223	DICE SITE 28	2004-04	11/23/2004	W	Litter	4000	mL
7-223	DICE SITE 28	2004-04	11/23/2004	W	Litter	960	g
7-223	DICE SITE 28	2004-04	11/23/2004	W	Vegetation	25000	mL
7-223	DICE SITE 28	2004-04	11/23/2004	W	Total Gross Solids	30000	mL
7-223	DICE SITE 28	2004-04	11/23/2004	D	Litter	4000	mL
7-223	DICE SITE 28	2004-04	11/23/2004	D	Litter	720	g
7-223	DICE SITE 28	2004-04	11/23/2004	W	Vegetation	16680	g
7-223	DICE SITE 28	2004-04	11/23/2004	W	Total Gross Solids	17880	g
7-223	DICE SITE 28	2004-05	12/3/2004	W	Total Gross Solids	0	mL
7-223	DICE SITE 28	2004-05	12/3/2004	W	Litter	0	mL
7-223	DICE SITE 28	2004-05	12/3/2004	W	Vegetation	0	mL
7-223	DICE SITE 28	2004-05	12/3/2004	W	Total Gross Solids	0	g
7-223	DICE SITE 28	2004-05	12/3/2004	W	Litter	0	g
7-223	DICE SITE 28	2004-05	12/3/2004	D	Litter	0	mL
7-223	DICE SITE 28	2004-05	12/3/2004	D	Litter	0	g
7-223	DICE SITE 28	2004-05	12/3/2004	W	Vegetation	0	g
7-223	DICE SITE 28	2004-06	12/7/2004	W	Vegetation	6980	g
7-223	DICE SITE 28	2004-06	12/7/2004	W	Litter	180	g
7-223	DICE SITE 28	2004-06	12/7/2004	D	Litter	180	g
7-223	DICE SITE 28	2004-06	12/7/2004	W	Total Gross Solids	14000	mL
7-223	DICE SITE 28	2004-06	12/7/2004	W	Total Gross Solids	7160	g
7-223	DICE SITE 28	2004-06	12/7/2004	D	Litter	1000	mL
7-223	DICE SITE 28	2004-06	12/7/2004	W	Litter	6000	mL
7-223	DICE SITE 28	2004-06	12/7/2004	W	Vegetation	8000	mL
7-223	DICE SITE 28	2004-07	12/16/2004	W	Total Gross Solids	-9072	g

Site ID	Outfall ID	Mobilization ID	Sample Date	Wet/Dry	Constituent	Reported Value	Units
7-223	DICE SITE 28	2004-07	12/16/2004	W	Total Gross Solids	21500	mL
7-223	DICE SITE 28	2004-08	12/22/2004	W	Vegetation	0	g
7-223	DICE SITE 28	2004-08	12/22/2004	W	Total Gross Solids	0	mL
7-223	DICE SITE 28	2004-08	12/22/2004	W	Total Gross Solids	0	g
7-223	DICE SITE 28	2004-08	12/22/2004	W	Litter	0	g
7-223	DICE SITE 28	2004-08	12/22/2004	D	Litter	0	g
7-223	DICE SITE 28	2004-08	12/22/2004	W	Litter	0	mL
7-223	DICE SITE 28	2004-08	12/22/2004	W	Vegetation	0	mL
7-223	DICE SITE 28	2004-08	12/22/2004	D	Litter	0	mL
7-223	DICE SITE 28	2004-09	12/30/2004	W	Litter	5320	g
7-223	DICE SITE 28	2004-09	12/30/2004	W	Total Gross Solids	81880	g
7-223	DICE SITE 28	2004-09	12/30/2004	W	Vegetation	60000	mL
7-223	DICE SITE 28	2004-09	12/30/2004	W	Litter	18000	mL
7-223	DICE SITE 28	2004-09	12/30/2004	W	Total Gross Solids	80000	mL
7-223	DICE SITE 28	2004-09	12/30/2004	D	Litter	19000	mL
7-223	DICE SITE 28	2004-09	12/30/2004	D	Litter	3100	g
7-223	DICE SITE 28	2004-09	12/30/2004	W	Vegetation	76260	g
7-223	DICE SITE 28	2004-10	1/5/2005	D	Litter	4000	mL
7-223	DICE SITE 28	2004-10	1/5/2005	W	Litter	1780	g
7-223	DICE SITE 28	2004-10	1/5/2005	W	Total Gross Solids	39480	g
7-223	DICE SITE 28	2004-10	1/5/2005	W	Vegetation	31000	mL
7-223	DICE SITE 28	2004-10	1/5/2005	W	Total Gross Solids	35000	mL
7-223	DICE SITE 28	2004-10	1/5/2005	D	Litter	940	g
7-223	DICE SITE 28	2004-10	1/5/2005	W	Vegetation	37800	g
7-223	DICE SITE 28	2004-10	1/5/2005	W	Litter	4000	mL
7-223	DICE SITE 28	2004-11	1/13/2005	W	Litter	4010	mL
7-223	DICE SITE 28	2004-11	1/13/2005	W	Litter	2380	g
7-223	DICE SITE 28	2004-11	1/13/2005	W	Vegetation	84000	mL
7-223	DICE SITE 28	2004-11	1/13/2005	W	Total Gross Solids	88000	mL
7-223	DICE SITE 28	2004-11	1/13/2005	W	Total Gross Solids	150080	g
7-223	DICE SITE 28	2004-11	1/13/2005	D	Litter	4000	mL
7-223	DICE SITE 28	2004-11	1/13/2005	D	Litter	1100	g
7-223	DICE SITE 28	2004-11	1/13/2005	W	Vegetation	147440	g
7-223	DICE SITE 28	2004-12	1/25/2005	W	Total Gross Solids	0	mL
7-223	DICE SITE 28	2004-12	1/25/2005	W	Vegetation	0	g
7-223	DICE SITE 28	2004-12	1/25/2005	W	Litter	0	g
7-223	DICE SITE 28	2004-12	1/25/2005	W	Total Gross Solids	0	g
7-223	DICE SITE 28	2004-12	1/25/2005	W	Litter	0	mL
7-223	DICE SITE 28	2004-12	1/25/2005	D	Litter	0	mL
7-223	DICE SITE 28	2004-12	1/25/2005	D	Litter	0	g
7-223	DICE SITE 28	2004-12	1/25/2005	W	Vegetation	0	mL
7-223	DICE SITE 28	2004-13	2/1/2005	W	Total Gross Solids	34800	g
7-223	DICE SITE 28	2004-13	2/1/2005	W	Vegetation	33390	g
7-223	DICE SITE 28	2004-13	2/1/2005	W	Litter	1410	g

Site ID	Outfall ID	Mobilization ID	Sample Date	Wet/Dry	Constituent	Reported Value	Units
7-223	DICE SITE 28	2004-13	2/1/2005	W	Vegetation	21000	mL
7-223	DICE SITE 28	2004-13	2/1/2005	W	Total Gross Solids	24000	mL
7-223	DICE SITE 28	2004-13	2/1/2005	D	Litter	2000	mL
7-223	DICE SITE 28	2004-13	2/1/2005	D	Litter	860	g
7-223	DICE SITE 28	2004-13	2/1/2005	W	Litter	3000	mL
7-223	DICE SITE 28	2004-14	2/3/2005	W	Total Gross Solids	45359	g
7-223	DICE SITE 28	2004-14	2/3/2005	W	Total Gross Solids	1500	mL
7-223	DICE SITE 28	2004-15	2/14/2005	W	Total Gross Solids	68000	mL
7-223	DICE SITE 28	2004-15	2/14/2005	D	Litter	3000	mL
7-223	DICE SITE 28	2004-15	2/14/2005	W	Vegetation	61000	mL
7-223	DICE SITE 28	2004-15	2/14/2005	W	Total Gross Solids	89300	g
7-223	DICE SITE 28	2004-15	2/14/2005	W	Litter	3040	g
7-223	DICE SITE 28	2004-15	2/14/2005	W	Vegetation	86260	g
7-223	DICE SITE 28	2004-15	2/14/2005	D	Litter	4820	g
7-223	DICE SITE 28	2004-15	2/14/2005	W	Litter	7000	mL
7-223	DICE SITE 28	2004-16	2/25/2005	D	Litter	2000	mL
7-223	DICE SITE 28	2004-16	2/25/2005	W	Vegetation	38000	mL
7-223	DICE SITE 28	2004-16	2/25/2005	W	Vegetation	65680	g
7-223	DICE SITE 28	2004-16	2/25/2005	W	Litter	1641	g
7-223	DICE SITE 28	2004-16	2/25/2005	W	Total Gross Solids	67320	g
7-223	DICE SITE 28	2004-16	2/25/2005	W	Total Gross Solids	40000	mL
7-223	DICE SITE 28	2004-16	2/25/2005	D	Litter	980	g
7-223	DICE SITE 28	2004-16	2/25/2005	W	Litter	2401	mL
7-223	DICE SITE 28	2004-17	3/9/2005	D	Litter	5000	mL
7-223	DICE SITE 28	2004-17	3/9/2005	W	Litter	1320	g
7-223	DICE SITE 28	2004-17	3/9/2005	W	Total Gross Solids	24760	g
7-223	DICE SITE 28	2004-17	3/9/2005	W	Vegetation	9000	mL
7-223	DICE SITE 28	2004-17	3/9/2005	W	Litter	5000	mL
7-223	DICE SITE 28	2004-17	3/9/2005	W	Vegetation	23440	g
7-223	DICE SITE 28	2004-17	3/9/2005	D	Litter	1240	g
7-223	DICE SITE 28	2004-17	3/9/2005	W	Total Gross Solids	14000	mL
7-223	DICE SITE 28	2004-18	3/18/2005	W	Total Gross Solids	0	g
7-223	DICE SITE 28	2004-18	3/18/2005	W	Vegetation	0	mL
7-223	DICE SITE 28	2004-18	3/18/2005	W	Litter	0	g
7-223	DICE SITE 28	2004-18	3/18/2005	W	Vegetation	0	g
7-223	DICE SITE 28	2004-18	3/18/2005	D	Litter	0	g
7-223	DICE SITE 28	2004-18	3/18/2005	W	Total Gross Solids	0	mL
7-223	DICE SITE 28	2004-18	3/18/2005	D	Litter	0	mL
7-223	DICE SITE 28	2004-18	3/18/2005	W	Litter	0	mL
7-223	DICE SITE 28	2004-19	3/21/2005	W	Vegetation	63400	g
7-223	DICE SITE 28	2004-19	3/21/2005	W	Vegetation	46000	mL
7-223	DICE SITE 28	2004-19	3/21/2005	W	Total Gross Solids	65540	g
7-223	DICE SITE 28	2004-19	3/21/2005	W	Total Gross Solids	51000	mL
7-223	DICE SITE 28	2004-19	3/21/2005	D	Litter	3000	mL

Site ID	Outfall ID	Mobilization ID	Sample Date	Wet/Dry	Constituent	Reported Value	Units
7-223	DICE SITE 28	2004-19	3/21/2005	W	Litter	2140	g
7-223	DICE SITE 28	2004-19	3/21/2005	W	Litter	5000	mL
7-223	DICE SITE 28	2004-19	3/21/2005	D	Litter	1600	g
7-223	DICE SITE 28	2004-20	4/1/2005	W	Total Gross Solids	32000	mL
7-223	DICE SITE 28	2004-20	4/1/2005	D	Litter	1940	g
7-223	DICE SITE 28	2004-20	4/1/2005	W	Vegetation	34160	g
7-223	DICE SITE 28	2004-20	4/1/2005	W	Litter	2300	g
7-223	DICE SITE 28	2004-20	4/1/2005	W	Total Gross Solids	36500	g
7-223	DICE SITE 28	2004-20	4/1/2005	W	Litter	8000	mL
7-223	DICE SITE 28	2004-20	4/1/2005	D	Litter	8000	mL
7-223	DICE SITE 28	2004-20	4/1/2005	W	Vegetation	24000	mL
7-223	DICE SITE 28	2004-21	4/8/2005	W	Total Gross Solids	45359	g
7-223	DICE SITE 28	2004-21	4/8/2005	W	Total Gross Solids	3500	mL
7-223	DICE SITE 28	2004-22	4/21/2005	D	Litter	0	mL
7-223	DICE SITE 28	2004-22	4/21/2005	W	Vegetation	0	mL
7-223	DICE SITE 28	2004-22	4/21/2005	W	Litter	0	g
7-223	DICE SITE 28	2004-22	4/21/2005	W	Litter	0	mL
7-223	DICE SITE 28	2004-22	4/21/2005	W	Total Gross Solids	0	mL
7-223	DICE SITE 28	2004-22	4/21/2005	D	Litter	0	g
7-223	DICE SITE 28	2004-22	4/21/2005	W	Total Gross Solids	0	g
7-223	DICE SITE 28	2004-22	4/21/2005	W	Vegetation	0	g
7-223	DICE SITE 28	2004-23	5/2/2005	W	Litter	7000	mL
7-223	DICE SITE 28	2004-23	5/2/2005	D	Litter	960	g
7-223	DICE SITE 28	2004-23	5/2/2005	D	Litter	7000	mL
7-223	DICE SITE 28	2004-23	5/2/2005	W	Total Gross Solids	33000	mL
7-223	DICE SITE 28	2004-23	5/2/2005	W	Vegetation	17920	g
7-223	DICE SITE 28	2004-23	5/2/2005	W	Litter	1200	g
7-223	DICE SITE 28	2004-23	5/2/2005	W	Total Gross Solids	19140	g
7-223	DICE SITE 28	2004-23	5/2/2005	W	Vegetation	26000	mL

**Table 4.3.8 Caltrans Site ID 7-224
Gross Solids Data Summary**

Site ID	Outfall ID	Mobilization ID	Sample Date	Wet/Dry	Constituent	Reported Value	Units
7-224	DICE SITE 29	2004-01	10/25/2004	D	Litter	5120	g
7-224	DICE SITE 29	2004-01	10/25/2004	W	Total Gross Solids	171580	g
7-224	DICE SITE 29	2004-01	10/25/2004	W	Litter	6530	g
7-224	DICE SITE 29	2004-01	10/25/2004	W	Vegetation	115000	mL
7-224	DICE SITE 29	2004-01	10/25/2004	W	Litter	20000	mL
7-224	DICE SITE 29	2004-01	10/25/2004	W	Total Gross Solids	127000	mL
7-224	DICE SITE 29	2004-01	10/25/2004	D	Litter	20000	mL
7-224	DICE SITE 29	2004-01	10/25/2004	W	Vegetation	164750	g
7-224	DICE SITE 29	2004-02	10/28/2004	D	Litter	7000	mL
7-224	DICE SITE 29	2004-02	10/28/2004	W	Vegetation	99700	g
7-224	DICE SITE 29	2004-02	10/28/2004	W	Total Gross Solids	63000	mL
7-224	DICE SITE 29	2004-02	10/28/2004	W	Litter	7000	mL
7-224	DICE SITE 29	2004-02	10/28/2004	D	Litter	3920	g
7-224	DICE SITE 29	2004-02	10/28/2004	W	Vegetation	56000	mL
7-224	DICE SITE 29	2004-02	10/28/2004	W	Total Gross Solids	104240	g
7-224	DICE SITE 29	2004-02	10/28/2004	W	Litter	4540	g
7-224	DICE SITE 29	2004-04	11/23/2004	D	Litter	8000	mL
7-224	DICE SITE 29	2004-04	11/23/2004	W	Total Gross Solids	40000	mL
7-224	DICE SITE 29	2004-04	11/23/2004	W	Litter	8000	mL
7-224	DICE SITE 29	2004-04	11/23/2004	W	Vegetation	47240	g
7-224	DICE SITE 29	2004-04	11/23/2004	W	Total Gross Solids	49240	g
7-224	DICE SITE 29	2004-04	11/23/2004	W	Litter	2660	g
7-224	DICE SITE 29	2004-04	11/23/2004	W	Vegetation	29000	mL
7-224	DICE SITE 29	2004-04	11/23/2004	D	Litter	2220	g
7-224	DICE SITE 29	2004-05	12/3/2004	W	Total Gross Solids	57040	g
7-224	DICE SITE 29	2004-05	12/3/2004	W	Total Gross Solids	39000	mL
7-224	DICE SITE 29	2004-05	12/3/2004	W	Vegetation	56120	g
7-224	DICE SITE 29	2004-05	12/3/2004	D	Litter	3000	mL
7-224	DICE SITE 29	2004-05	12/3/2004	W	Litter	3000	mL
7-224	DICE SITE 29	2004-05	12/3/2004	W	Vegetation	38000	mL
7-224	DICE SITE 29	2004-05	12/3/2004	W	Litter	680	g
7-224	DICE SITE 29	2004-05	12/3/2004	D	Litter	520	g
7-224	DICE SITE 29	2004-06	12/7/2004	W	Total Gross Solids	32000	mL
7-224	DICE SITE 29	2004-06	12/7/2004	D	Litter	7000	mL
7-224	DICE SITE 29	2004-06	12/7/2004	W	Vegetation	57580	g
7-224	DICE SITE 29	2004-06	12/7/2004	W	Total Gross Solids	59700	g
7-224	DICE SITE 29	2004-06	12/7/2004	W	Vegetation	27000	mL
7-224	DICE SITE 29	2004-06	12/7/2004	W	Litter	2020	g
7-224	DICE SITE 29	2004-06	12/7/2004	W	Litter	6000	mL
7-224	DICE SITE 29	2004-06	12/7/2004	D	Litter	1970	g
7-224	DICE SITE 29	2004-08	12/22/2004	D	Litter	0	mL

Site ID	Outfall ID	Mobilization ID	Sample Date	Wet/Dry	Constituent	Reported Value	Units
7-224	DICE SITE 29	2004-08	12/22/2004	W	Vegetation	0	g
7-224	DICE SITE 29	2004-08	12/22/2004	W	Litter	0	g
7-224	DICE SITE 29	2004-08	12/22/2004	W	Total Gross Solids	0	g
7-224	DICE SITE 29	2004-08	12/22/2004	W	Vegetation	0	mL
7-224	DICE SITE 29	2004-08	12/22/2004	W	Total Gross Solids	0	mL
7-224	DICE SITE 29	2004-08	12/22/2004	D	Litter	0	g
7-224	DICE SITE 29	2004-08	12/22/2004	W	Litter	0	mL
7-224	DICE SITE 29	2004-09	12/30/2004	W	Total Gross Solids	35000	mL
7-224	DICE SITE 29	2004-09	12/30/2004	D	Litter	7000	mL
7-224	DICE SITE 29	2004-09	12/30/2004	W	Vegetation	33640	g
7-224	DICE SITE 29	2004-09	12/30/2004	W	Litter	2100	g
7-224	DICE SITE 29	2004-09	12/30/2004	W	Total Gross Solids	36180	g
7-224	DICE SITE 29	2004-09	12/30/2004	W	Litter	7000	mL
7-224	DICE SITE 29	2004-09	12/30/2004	W	Vegetation	30000	mL
7-224	DICE SITE 29	2004-09	12/30/2004	D	Litter	1640	g
7-224	DICE SITE 29	2004-10	1/5/2005	W	Vegetation	20000	mL
7-224	DICE SITE 29	2004-10	1/5/2005	D	Litter	3000	mL
7-224	DICE SITE 29	2004-10	1/5/2005	W	Litter	4000	mL
7-224	DICE SITE 29	2004-10	1/5/2005	D	Litter	1980	g
7-224	DICE SITE 29	2004-10	1/5/2005	W	Total Gross Solids	33820	g
7-224	DICE SITE 29	2004-10	1/5/2005	W	Litter	2040	g
7-224	DICE SITE 29	2004-10	1/5/2005	W	Vegetation	31420	g
7-224	DICE SITE 29	2004-10	1/5/2005	W	Total Gross Solids	25000	mL
7-224	DICE SITE 29	2004-11	1/13/2005	D	Litter	720	g
7-224	DICE SITE 29	2004-11	1/13/2005	W	Litter	760	g
7-224	DICE SITE 29	2004-11	1/13/2005	W	Total Gross Solids	2860	g
7-224	DICE SITE 29	2004-11	1/13/2005	W	Vegetation	9000	mL
7-224	DICE SITE 29	2004-11	1/13/2005	W	Litter	2000	mL
7-224	DICE SITE 29	2004-11	1/13/2005	D	Litter	4000	mL
7-224	DICE SITE 29	2004-11	1/13/2005	W	Vegetation	2080	g
7-224	DICE SITE 29	2004-11	1/13/2005	W	Total Gross Solids	10000	mL
7-224	DICE SITE 29	2004-12	1/25/2005	W	Vegetation	0	g
7-224	DICE SITE 29	2004-12	1/25/2005	D	Litter	0	mL
7-224	DICE SITE 29	2004-12	1/25/2005	W	Total Gross Solids	0	mL
7-224	DICE SITE 29	2004-12	1/25/2005	W	Litter	0	mL
7-224	DICE SITE 29	2004-12	1/25/2005	W	Vegetation	0	mL
7-224	DICE SITE 29	2004-12	1/25/2005	W	Litter	0	g
7-224	DICE SITE 29	2004-12	1/25/2005	D	Litter	0	g
7-224	DICE SITE 29	2004-12	1/25/2005	W	Total Gross Solids	0	g
7-224	DICE SITE 29	2004-13	2/1/2005	W	Total Gross Solids	0	mL
7-224	DICE SITE 29	2004-13	2/1/2005	W	Litter	0	mL
7-224	DICE SITE 29	2004-13	2/1/2005	W	Vegetation	0	g
7-224	DICE SITE 29	2004-13	2/1/2005	W	Litter	0	g
7-224	DICE SITE 29	2004-13	2/1/2005	D	Litter	0	g

Site ID	Outfall ID	Mobilization ID	Sample Date	Wet/Dry	Constituent	Reported Value	Units
7-224	DICE SITE 29	2004-13	2/1/2005	W	Vegetation	0	mL
7-224	DICE SITE 29	2004-13	2/1/2005	D	Litter	0	mL
7-224	DICE SITE 29	2004-13	2/1/2005	W	Total Gross Solids	0	g
7-224	DICE SITE 29	2004-15	2/14/2005	D	Litter	1820	g
7-224	DICE SITE 29	2004-15	2/14/2005	D	Litter	10000	mL
7-224	DICE SITE 29	2004-15	2/14/2005	W	Total Gross Solids	47000	mL
7-224	DICE SITE 29	2004-15	2/14/2005	W	Litter	10000	mL
7-224	DICE SITE 29	2004-15	2/14/2005	W	Vegetation	36000	mL
7-224	DICE SITE 29	2004-15	2/14/2005	W	Total Gross Solids	58600	g
7-224	DICE SITE 29	2004-15	2/14/2005	W	Vegetation	56020	g
7-224	DICE SITE 29	2004-15	2/14/2005	W	Litter	2280	g
7-224	DICE SITE 29	2004-16	2/25/2005	W	Litter	4000	mL
7-224	DICE SITE 29	2004-16	2/25/2005	W	Vegetation	26000	mL
7-224	DICE SITE 29	2004-16	2/25/2005	W	Total Gross Solids	30000	mL
7-224	DICE SITE 29	2004-16	2/25/2005	D	Litter	4000	mL
7-224	DICE SITE 29	2004-16	2/25/2005	W	Total Gross Solids	41020	g
7-224	DICE SITE 29	2004-16	2/25/2005	D	Litter	1460	g
7-224	DICE SITE 29	2004-16	2/25/2005	W	Litter	1780	g
7-224	DICE SITE 29	2004-16	2/25/2005	W	Vegetation	39200	g
7-224	DICE SITE 29	2004-17	3/10/2005	W	Litter	1420	g
7-224	DICE SITE 29	2004-17	3/10/2005	W	Total Gross Solids	29620	g
7-224	DICE SITE 29	2004-17	3/10/2005	W	Vegetation	22000	mL
7-224	DICE SITE 29	2004-17	3/10/2005	W	Litter	4000	mL
7-224	DICE SITE 29	2004-17	3/10/2005	W	Total Gross Solids	26000	mL
7-224	DICE SITE 29	2004-17	3/10/2005	W	Vegetation	28200	g
7-224	DICE SITE 29	2004-17	3/10/2005	D	Litter	3000	mL
7-224	DICE SITE 29	2004-17	3/10/2005	D	Litter	760	g
7-224	DICE SITE 29	2004-18	3/18/2005	D	Litter	0	mL
7-224	DICE SITE 29	2004-18	3/18/2005	W	Total Gross Solids	0	mL
7-224	DICE SITE 29	2004-18	3/18/2005	W	Vegetation	0	g
7-224	DICE SITE 29	2004-18	3/18/2005	W	Vegetation	0	mL
7-224	DICE SITE 29	2004-18	3/18/2005	W	Total Gross Solids	0	g
7-224	DICE SITE 29	2004-18	3/18/2005	W	Litter	0	g
7-224	DICE SITE 29	2004-18	3/18/2005	D	Litter	0	g
7-224	DICE SITE 29	2004-18	3/18/2005	W	Litter	0	mL
7-224	DICE SITE 29	2004-19	3/21/2005	W	Vegetation	0	g
7-224	DICE SITE 29	2004-19	3/21/2005	W	Litter	0	g
7-224	DICE SITE 29	2004-19	3/21/2005	W	Total Gross Solids	0	g
7-224	DICE SITE 29	2004-19	3/21/2005	W	Vegetation	0	mL
7-224	DICE SITE 29	2004-19	3/21/2005	W	Litter	0	mL
7-224	DICE SITE 29	2004-19	3/21/2005	W	Total Gross Solids	0	mL
7-224	DICE SITE 29	2004-19	3/21/2005	D	Litter	0	mL
7-224	DICE SITE 29	2004-19	3/21/2005	D	Litter	0	g
7-224	DICE SITE 29	2004-20	4/1/2005	W	Total Gross Solids	38620	g

Site ID	Outfall ID	Mobilization ID	Sample Date	Wet/Dry	Constituent	Reported Value	Units
7-224	DICE SITE 29	2004-20	4/1/2005	D	Litter	1490	g
7-224	DICE SITE 29	2004-20	4/1/2005	D	Litter	10000	mL
7-224	DICE SITE 29	2004-20	4/1/2005	W	Total Gross Solids	41000	mL
7-224	DICE SITE 29	2004-20	4/1/2005	W	Vegetation	32000	mL
7-224	DICE SITE 29	2004-20	4/1/2005	W	Litter	2100	g
7-224	DICE SITE 29	2004-20	4/1/2005	W	Vegetation	36520	g
7-224	DICE SITE 29	2004-20	4/1/2005	W	Litter	9000	mL
7-224	DICE SITE 29	2004-22	4/21/2005	D	Litter	0	g
7-224	DICE SITE 29	2004-22	4/21/2005	D	Litter	0	mL
7-224	DICE SITE 29	2004-22	4/21/2005	W	Total Gross Solids	0	mL
7-224	DICE SITE 29	2004-22	4/21/2005	W	Litter	0	g
7-224	DICE SITE 29	2004-22	4/21/2005	W	Litter	0	mL
7-224	DICE SITE 29	2004-22	4/21/2005	W	Vegetation	0	mL
7-224	DICE SITE 29	2004-22	4/21/2005	W	Total Gross Solids	0	g
7-224	DICE SITE 29	2004-22	4/21/2005	W	Vegetation	0	g
7-224	DICE SITE 29	2004-23	5/2/2005	D	Litter	1600	g
7-224	DICE SITE 29	2004-23	5/2/2005	W	Litter	1740	g
7-224	DICE SITE 29	2004-23	5/2/2005	W	Total Gross Solids	25080	g
7-224	DICE SITE 29	2004-23	5/2/2005	W	Vegetation	31000	mL
7-224	DICE SITE 29	2004-23	5/2/2005	W	Litter	9000	mL
7-224	DICE SITE 29	2004-23	5/2/2005	W	Total Gross Solids	40000	mL
7-224	DICE SITE 29	2004-23	5/2/2005	D	Litter	9000	mL
7-224	DICE SITE 29	2004-23	5/2/2005	W	Vegetation	23340	g